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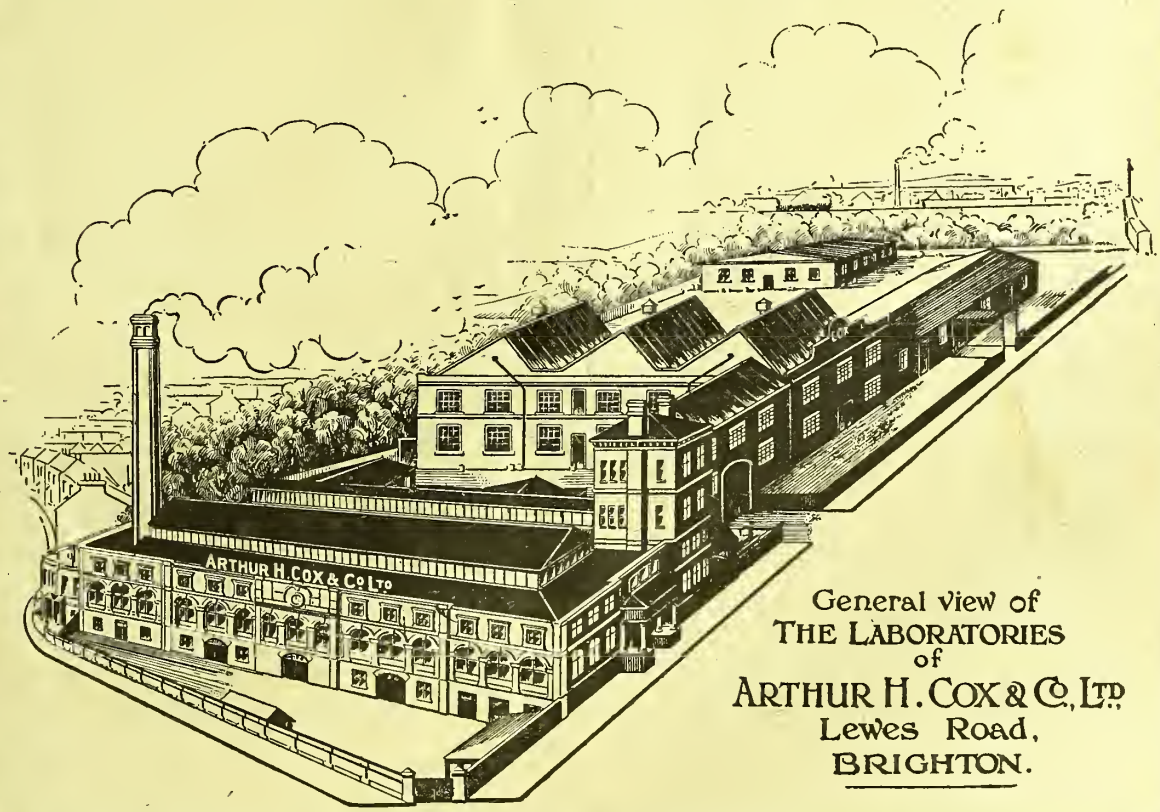

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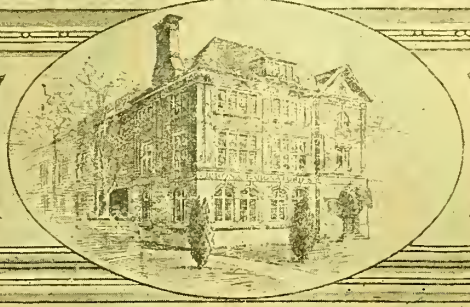

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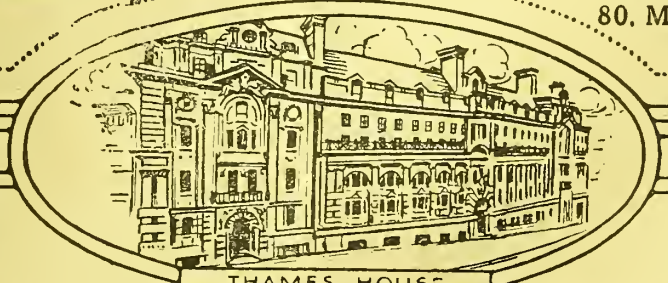

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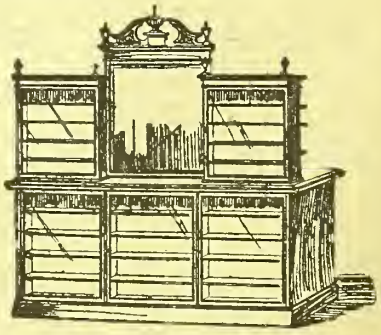

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The Degrees in Medicine, Surgery, and Hygiene, the Diploma in Public Health, the Diploma in Psychiatry, and the Licence in Dental Surgery of the University of Durham are open to men and women.

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1. By payment of 80 guineas on entrance.

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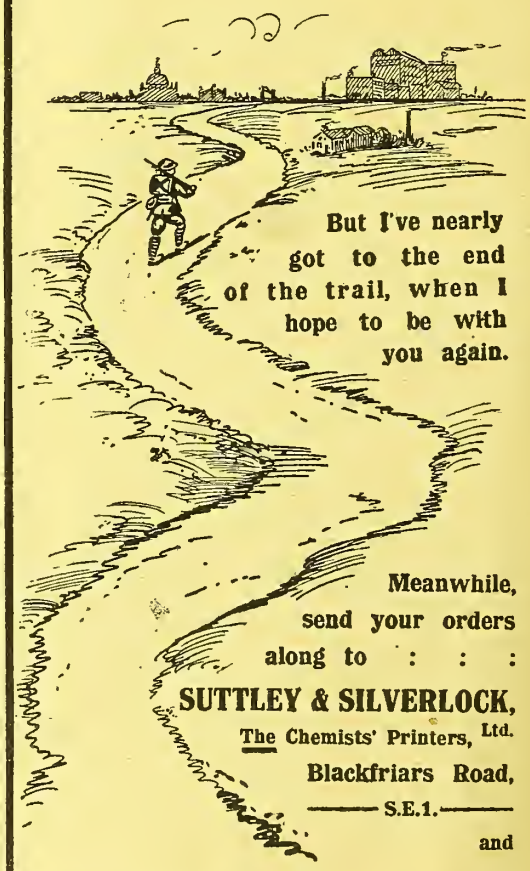
Further particulars may be obtained from Professor HOWDEN, Secretary, at the College.

"There's a long long trail a winding"



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Maw's Page.

NUMBER 307. SEPTEMBER 1, 1917.

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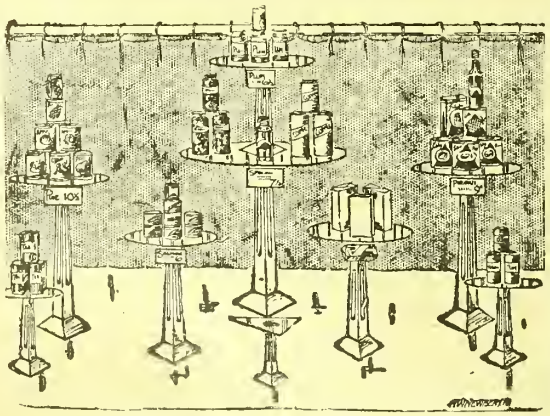

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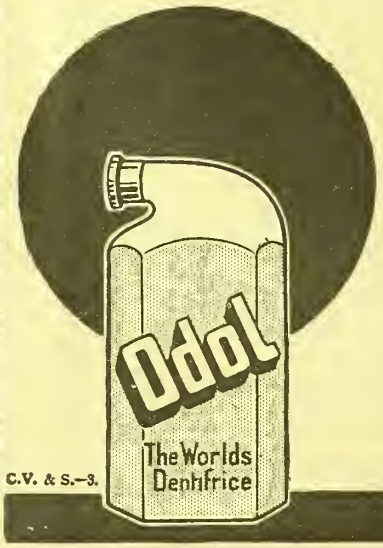

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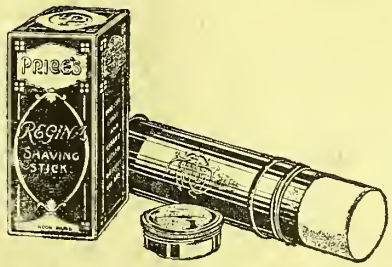

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WHOLESALE and EXPORT
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IS NOW 2/9 PER BOTTLE (FACE VALUE)

This yields a considerable increase of profit to chemists, nevertheless Messrs. KUTNOW are keeping to their wholesale price, as hitherto, in spite of the enormous rises in the cost of all the materials, bottles and everything else in connection with the manufacture of KUTNOW'S POWDER. In view of the above facts, Messrs. KUTNOW trust that both the wholesale and retail trade will co-operate with them in creating a still greater demand for KUTNOW'S POWDER, and that no substitutes for KUTNOW'S POWDER will be offered to the public in future.

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All advertising matter—Booklets, Window Displays Showcards, etc., free on application.

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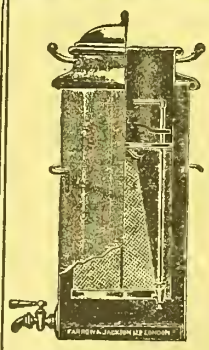

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"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

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Of proved utility in Nervous Diseases, and a Powerful Restorative for the Digestive Organs and Nervous System.

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"It is of high nutritive value, enhanced by the presence of assimilable phosphates."—*The Lancet.*

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MIST. PEPSINÆ CO. c. BISMUTHO

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Price 11/- per lb. Packed for dispensing only, in 10, 22, 40 and 90 oz bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

British Medical Journal.

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"A complete food." — *Lancet.*

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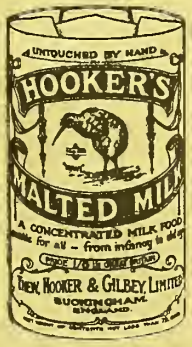

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THE CHEAPEST HARVEST DRINK.

MANUFACTURERS:

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NOTICE TO THE TRADE.

MESSRS. AERATORS, LTD., regret that it has been, and will be for some time yet, impossible for them to meet demands for the "Prana" Sparklet Syphons and Bulbs, not only owing to other urgent war work, but also to the restricted supply of materials and the large demands (which must be considered preferentially) by the Expeditionary Force Canteens, Red Cross Society, &c. &c.

As regards "D" Bulbs, for the time being it is only possible to refill empty bulbs returned, and the Company request the co-operation of the Trade in the return of as many empties as possible for refilling.

AERATORS LTD.,
"Prana" Sparklet Works,
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REAL TURTLE Soup Cubes

"Ready to Serve."

Made from the real rich meat of selected West Indian Turtles—so that real Turtle Soup, once the privilege only of the rich, is now a delicacy easily accessible to every household. No other soup is so nourishing and delicious.

Made in a minute with boiling water.

To retail in 1/- Cartons containing 4 Cubes,

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Makers of
Freemans Table Dainties Boisseliers (Boy-sel-e-a)Chocolates and Vi-Cocoa,
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Freemans READY SOUPS Watford

We are getting heavily booked up for Christmas, would our friends send us their orders early.

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CONDENSED TABLETS

DOLS & CO., LTD., the Original Condensed Tablet Makers, Tea Merchants, Coffee Roasters, Cocoa Manufacturers, Military Contractors, Manufacturers of Tablets to the Trade, offer their specialities as below.

All sell at 9d. Minimum Price.

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The above are manufactured by the most scientific makers in the world, who have supplied campaigns and expeditions in both hot and cold climates. The recognised firm by all governments.

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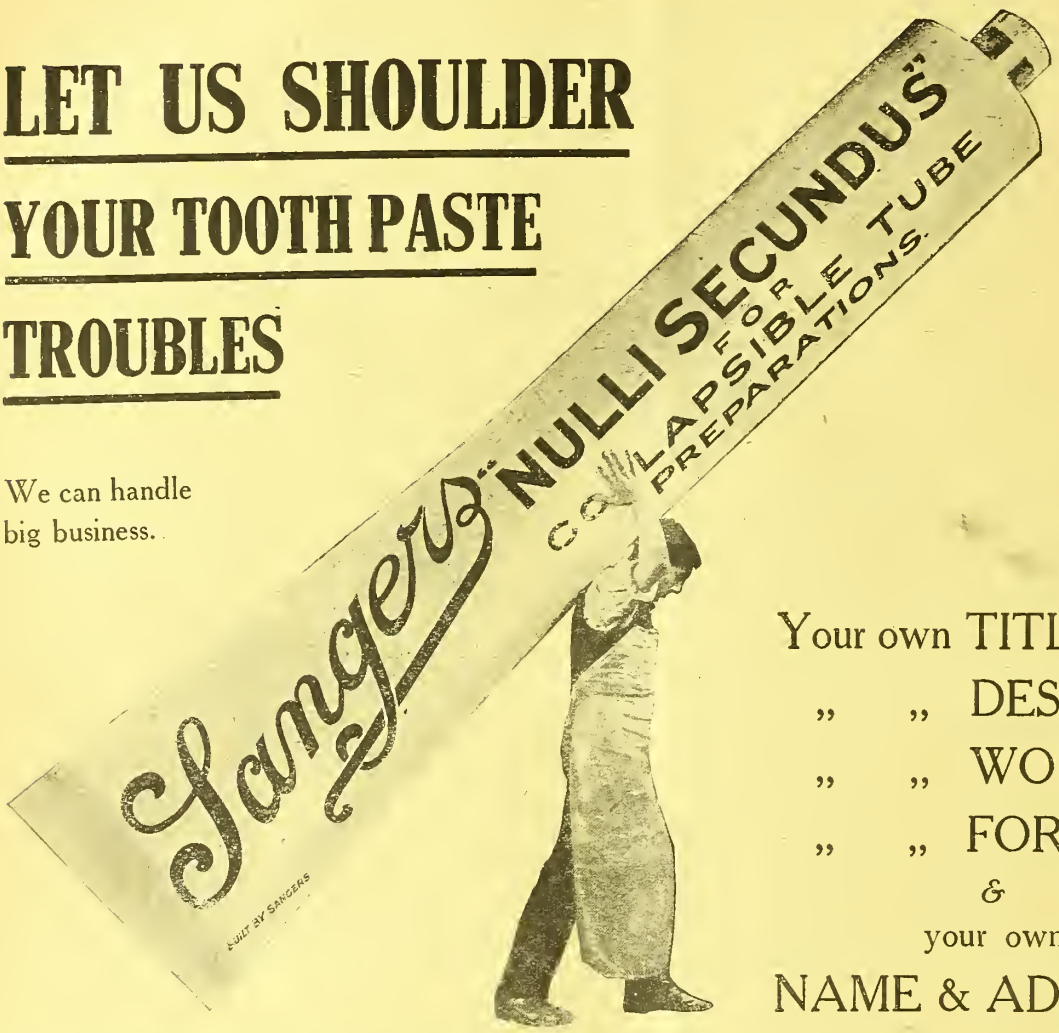
LET US SHOULDER YOUR TOOTH PASTE TROUBLES

We can handle big business.



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IN FACT

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ARECA NUT, CARBOLIC, CHERRY, CRÈME de MENTHE, THYMO-EUCALYPTUS, FORMALIN, MINT, THYMOL, WINTERGREEN, WHITE ROSE.

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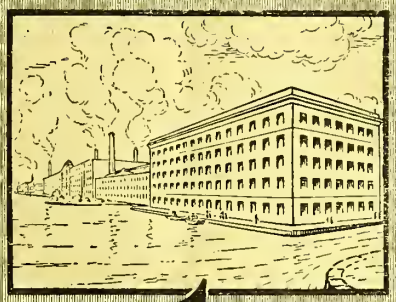
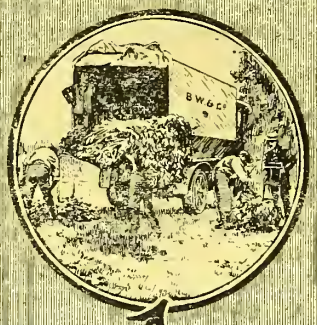
258 Euston Road, London, N.W. 1.

Gathering Hyoscyamus on the 'Wellcome' Materia Medica Farm.



'Wellcome' Chemical Works, Dartford, England.



Loading Belladonna on the 'Wellcome' Materia Medica Farm.

Uniformity in Dispensing

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Galenicals

B.P. OR BETTER

NOTABLE SERIES—

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Write for Quotations

All products are scientifically prepared from the finest raw material, much of it being cultivated on the 'Wellcome' Materia Medica Farm.

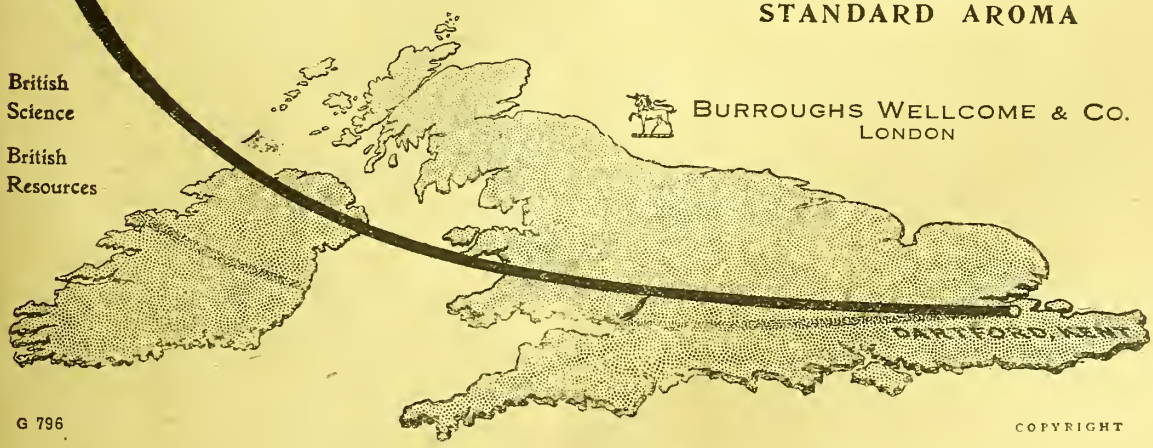
The finished products conform to the 'Wellcome' standards, which ensure

STANDARD ACTIVITY
STANDARD COLOUR
STANDARD AROMA

British Science

British Resources

BURROUGHS WELLCOME & CO.
LONDON



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REGISTERED TRADE MARK.

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Wharf Road, N.

REGISTERED OFFICES
and address for all communications:
22-30 Graham Street,
City Road, N.

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A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
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The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

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Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6*d.*; Summer or Winter Number, 1*s.*; *Diary* 3*s.* 6*d.* Postal orders and cheques to be crossed "Martin's Bank (Limited)."

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Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 12 ch. y 6 peniques, franco.

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Head Office: 42 CANNON STREET, LONDON, E.C. 4.
Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines).
Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

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"C. & D. DIARY," 1918.—Our annual *Diary*, which this year will be somewhat different in form, has, in consequence of war conditions, to go to press somewhat early, and the work of revision is already well advanced. We shall reserve space for the registration of formulæ for "known, admitted, and approved" remedies. Our *Diary* was the first book of the kind which the Revenue authorities accepted as an approved book of reference. The space reserved in the 1918 *Diary* for such formulæ will be limited, so that true copies of them, with doses or other directions for use, should be sent to the Editor, *C. & D.*, 42 Cannon Street, London, E.C., as promptly as possible.

THE NATIONAL ECONOMIC LEAGUE OF ITALY, formed for promoting the development of home industries, has appealed to pharmacists to check, if they cannot entirely stop, the invasion of foreign pharmaceutical products.

SYNTHETIC CHEMICALS IN ITALY.—A report has been issued by the Commission appointed last year to consider the place of synthetic chemicals in medicine, with special reference to the exploitation in Italy of those of German origin. A list of over fifty approved remedies has been drawn up, and every assistance will be given by the Commission to Italian manufacturers who wish to undertake the manufacture of new products. (The report remarks, in passing, that many so-called intestinal antiseptics are less successful than a good purgative.) The same Committee also investigated the question of cultivating medicinal plants, and has already made certain arrangements for next year's supply.

European War News.

Import and Export Notices.

UNITED KINGDOM.—A number of important alterations in the list of prohibited exports are announced in the "London Gazette" (August 28): Beeswax has been transferred from the "B" to the "A" list; the item "(A) saccharin" has been amplified to "(A) saccharin and articles and mixtures and preparations containing saccharin"; the item "(C) vanillin" is now "(C) vanillin, vanilla, and vanilla pods"; marjoram and thyme-leaves have been placed in the "C" list. Quercitron-bark has been amended to "(A) quercitron-bark and extracts thereof," while "(A) tanning extracts and substances for use in tanning" is substituted for "(A) tanning extracts and substances used for tanning, including cutch." "(A) Invert sugar and articles, mixtures, and preparations containing invert sugar" is a new heading; "(A) malt sugar (maltose) and articles and preparations containing invert sugar" was formerly "(A) malt sugar." The following are new items: "(C) Dyes, vegetable, and dyestuffs and their extracts used in the preparation of vegetable dyes, and articles containing such dyes, dyestuffs, and extracts, not otherwise prohibited"; "(A) cutch and extracts thereof"; "(A) galls and extracts thereof"; "(A) gambier and extracts thereof."

Personalia.

SECOND-LIEUTENANT DUNDEE, M.C., Royal Irish Rifles, brother of Mr. James Dundee, Ph.C., Belfast, is reported wounded.

MR. C. H. GREAVES has received a commission. He is the son of Dr. R. B. Greaves, Sheffield, who before taking up medicine was a pharmacist and a pharmaceutical coach.

CAPTAIN ALFRED H. MURRAY, Royal Dublin Fusiliers, who is in hospital in consequence of serious gunshot wounds, is a son-in-law of Mr. Huston Lancashire, Ph.C., Ballymena.

PRIVATE PATRICK CURTIN, R.A.M.C., formerly a chemist's assistant at the Medical Hall, Midleton, has been awarded the Military Medal for bravery displayed under fire in France.

PRIVATE SAMUEL ORR GIBSON, Seaforth Highlanders, awarded the Military Medal for gallantry, was with Grattan, Ltd., chemists, Corn Market, Belfast, before he enlisted.

SERGEANT JOHN MAINPRIZE, son of Mr. V. Mainprize, chemist and druggist, Palace Avenue, Bridlington, has been awarded the Distinguished Conduct Medal for gallantry in action.

SECOND-LIEUTENANT F. W. BURNSIDE, Royal Irish Rifles, who was severely wounded on August 16, is a son of Mr. J. A. Burnside (representing Alex. Finlay, Ltd., soap-manufacturers, Belfast).

DR. CECIL WOODSIDE, elder son of Mr. J. A. Woodside, Ph.C., Church Street, Ballymena, has received a commission in the R.A.M.C. Lieutenant Woodside was educated at the Ballymena Academy and at Queen's University, Belfast.

PRIVATE GEORGE WOODCOCK, Northamptonshire Regiment, son of Mr. T. J. Woodcock, chemist and druggist, Church Plain, Great Yarmouth, has sent home a postcard stating that he is a prisoner and well. He had been officially reported missing (*C. & D.*, August 11, p. 33).

LIEUTENANT PARKES, only son of Mr. G. J. R. Parkes (representing The British Drug Houses, Ltd.), has just been home on short leave from France. Lieutenant Parkes joined the Army early in the war, and has since been wounded.

PRIVATE KENNY, Bondi, New South Wales, has been awarded the V.C. for bravery in action. Private Kenny enlisted at the age of nineteen, and prior to that time was with Mr. Parker, pharmacist, Bondi Junction, where he intended to serve his apprenticeship.

COLONEL H. W. GRIMWADE, Temporary Brigadier-General, is among the Australian officers who were awarded the C.M.G. in the King's Birthday list. Brigadier-General Grimwade has received the congratulations of the Pharmaceutical Society of Australasia, Victoria.

PIONEER JOHN BEGG, Royal Engineers, has been dangerously wounded in the head, and is now in hospital in France. Before joining the Army Pioneer Begg was a pharmacist in charge of the drug department at a branch shop of the Northern Co-operative Co., Ltd., Aberdeen.

SERGEANT R. S. CAPPELL, Royal Engineers, elder son of Mr. Robert Cappell, pharmacist, Hillhead, Glasgow, was awarded the Military Medal on August 1 for gallantry. Sergeant Cappell enlisted in the Cameron Highlanders in September 1914, when sixteen years of age, and he was sent to France in July 1915.

Corporal H. Moore (Midland and Eastern Counties representative for Suttley & Silverlock, Ltd.), late of the Royal Warwickshire Regiment, who went out to the Somme in November 1915 with his battalion, is now acting as dispenser at the Medical Inspection Rooms, Crownhill Barracks, Plymouth, having been found unfit for further combatant service. He hopes to return to his ground shortly—on the conclusion of hostilities, if not before.

Private Charles Barker, R.A.M.C., who has been awarded the Military Medal for bravery in action in France, is now in hospital suffering from gas-poisoning. A German shell burst among some British gas shells, and Private Barker and a comrade rushed to the spot and buried the gas shells, thereby saving the lives of fifteen men. Private Barker, who went through the Dardanelles campaign, was formerly with Waller & Riley, Ltd., chemists, Rock Street, Bury.

Sergeant Tom Ashworth, King's (Liverpool Regiment), has been awarded the Military Medal for conspicuous bravery. As N.C.O. in charge of stretcher-bearers he organised parties, and collected and dressed large numbers of wounded, despite the fact that he was himself under medical treatment. Sergeant Ashworth, who joined the Forces in 1914, and was in the Somme push last year, is a chemist and druggist and a member of the Liverpool Chemists' Association.

Second-Lieutenant Arthur Wright Lupton has been awarded the Military Cross for "conspicuous gallantry and devotion to duty. Although wounded before our attack commenced and suffering from loss of blood, he took his guns forward to his final objective and placed them in position before returning to the dressing-station." Second-Lieutenant Lupton and his elder brother, who is a dispenser in the R.A.M.C., are qualified pharmacists and sons of a pharmacist, Mr. J. A. Lupton, Bootham, York.

Captain Frederick C. Curry, a Canadian officer, has, under the title "From the St. Lawrence to the Yser," published recently an account of his experiences in the great war. After serving an apprenticeship with his father, a pharmacist at Brockville, Ontario, he graduated at the University of Toronto in 1913 as a Bachelor of Pharmacy, also taking the degree of pharmaceutical chemist *cum laude*. He had received a commission prior to the declaration of war, and took up his military duties immediately after that event. He crossed to France in April 1915, was promoted captain in October of that year, and was subsequently wounded.

Miscellaneous.

Flax-crop Commandeered.—The Minister of Munitions announces that he is taking possession of all flax of the 1917 crop grown in the United Kingdom as soon as it is harvested.

Enemy Firms.—The Controller of the Foreign Trade Department has issued a new consolidating list containing the names of over two thousand persons and firms with whom persons in the United Kingdom are forbidden to trade under the Trading with the Enemy (Statutory List) Proclamation, 1916. The name of Eduard Dralle (of "Lotus" Parfumerien Fabriek, Amsterdam) and the "Lotus" Parfumerien Fabriek, Amsterdam, occurs on the list.

Entertaining Soldiers.—The first of a series of entertainments for wounded soldiers organised by Eucryl, Ltd., was held at St. Barnabas' Hall, North Dulwich, London, S.E., on August 2, when, in spite of wretched climatic conditions, 150 visitors from London hospitals spent an enjoyable afternoon. An excellent concert was given, followed by tea and competitions in hat-trimming, etc. The company's works and offices were closed for the afternoon, and several well-known artists co-operated with the staff to ensure the happiness of their guests.

Food Control Committees.—The Food Controller issued on August 27 the Sugar (Registration of Retailers) Order, by which retailers are forbidden to sell sugar after October 1 without certificates of registration granted by the Food Control Committee in whose area their premises are situated. Committees must grant certificates to traders who apply before September 15, and who, or whose predecessors, were dealing in sugar by retail during 1915 in their areas, and are so dealing at the date of application. Certificates may be granted to other applicants. Infringements of the Food Controller's regulations may lead to the revocation of a licence. The Order does not apply to Ireland.—A further communication from the Ministry of Food states that safeguards have been devised to prevent the Food Control Committees exercising their powers to the individual advantages of the members. Up to the present time 1,600 Committees out of 2,000 have been appointed. Their first duty will be to register everyone who deals in sugar, and their next to issue licences to the traders entitling them to the quantities needed by their customers who have made due application on forms which will be issued between September 15 and September 29, and have received in return sugar-cards. The Food Controller has power at any time to cancel a tradesman's licence if there is proof of its illegitimate use. If anyone is refused sugar on presentation of a sugar-card at the shop dealt with, it will not rest with the local Food Control Committee to decide the matter, but with the Food Controller himself. Any collusion between the Committee and the trader in the interests of the latter is thus avoided.

Army Medical Service.—A Committee has been formed by the War Office to proceed at once to France for the purpose of inquiring into various matters connected with the *personnel* and administration of the Army Medical Services in that country. On its return it will carry out similar investigations in the United Kingdom. The members of the Committee are Major-General Sir Francis Howard, K.C.B., K.C.M.G. (Chairman); Sir Rickman John Godlee, Bt., K.C.V.O.; Sir Frederick Taylor, Bt.; Sir William Watson Cheyne, K.C.M.G., C.B., M.P.; Lieut.-Colonel A. J. Stiles, M.B., C.M., F.R.C.S.; Dr. Buttar; Norman Walker, M.D.; and Mr. J. B. Christopherson, F.R.C.S., F.R.C.P., M.D. (Secretary). The appointment of the Committee is in accordance with an undertaking given in the House of Commons on August 14 by Mr. Macpherson. Allegations have been made that there is a wasteful system in vogue regarding the employment of medical men in the Army. [The "Medical Press" points out that three of the medical men appointed are seventy years of age, and doubts whether men of this age are the best "to introduce elasticity into an over-rigid system."]

Military Tribunals' Decisions.

Since our Last Issue the following decisions have been notified:

Bermondsey. — Mr. Robert Blackie, manufacturing chemist, Tower Bridge Road, London, S.E., applied for the exemption of a qualified manager, who was granted a further three months' exemption. He asked for permission to lodge a late appeal for a man in charge of his machinery, who had received a notice calling him to the Colours, but the Tribunal refused his request, and referred him to the Army Council, who alone could now grant permission in these cases.—Mr. A. Barnett, dispensing chemist, applied for further exemption. A member of the Tribunal asked if dispensing chemists were not now getting exemption through the Pharmaceutical Society. Applicant said they are not. He was granted three months' exemption.—Brandram Bros. & Co., Ltd., manufacturers of white lead, Rotherhithe, London, S.E., withdrew an appeal for a labourer, as he had been granted a certificate of exemption by the Ministry of Munitions.—Meggeson & Co., Ltd., medicinal-lozenge makers, New Church Street, London, S.E., obtained two months' exemption for an assistant.

Boston.—Mr. D. F. Everitt, dispenser to Drs. Pilcher & Lock, High Street, has been exempted until January 6.

Camberley.—Exemption has been refused to Mr. J. Russell, chemist and druggist, Camberley.

Cirencester.—On the application of his father, a pharmacist, Mr. Charles Garnet Trinder, chemist and druggist, was granted conditional exemption.

Dorking.—Mr. H. Dixon, pharmacist, Dorking, has been granted three months' exemption.

Hereford.—The appeal of Mr. G. Charles Davies, apprentice with Mr. G. Donaldson, Ph.C., was adjourned.

Lambeth.—The authorities at St. Thomas's Hospital applied for the exemption of a laboratory attendant. A representative from the hospital stated that this man was in the medical school, was teaching, and was the only man left for this important work. Six months' exemption was granted.

Lewisham.—Mr. W. A. Stevens, pharmacist, 128 Hither Green Lane, was granted a further three months' exemption.

Lincoln.—The military authority successfully appealed against an exemption of four months granted, on condition of joining the V.T.C., to a chemist's apprentice. It was decided, however, that he is not to be called up for six months.

Mossley.—Wilfred Mills, apprentice with Mr. P. Hirst, chemist and druggist, has been exempted until November 30.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Government Control of Trade.

A Report of the Merchants' Committee of the London Chamber of Commerce has been issued dealing with the effect of the action of the Government in controlling the sale and distribution of leading commodities of common necessity. The Report is severely critical of this control, as may be judged from the following extract:

"The policy at present pursued appears to be based upon an imperfect appreciation of the principles upon which the import business of the country has been conducted and of the means by which the natural resources of the country itself have been rendered serviceable for the needs of industry, whether carried on by the State or by private enterprise separately or in alliance with the State. It is only in comparatively recent times—outside the Ministry of Munitions—that the direct employment of trained business men has been availed of to any extent by the Government. The action of Controllers has in many cases conduced to high prices and ultimate scarcity."

The Committee suggest that the Government should confine their action to supervision, should centralise the controlling authority, and should "disband and do away with the numerous unco-ordinated departments which are now seriously restricting legitimate trade." A number of recommendations are made by the Committee, including one that the Government should cease to act as trading intermediary between producers and consumers, but should utilise to the fullest extent the services of the business community.

Contracts.

Merthyr Tydfil Town Council has accepted the tender of Mr. V. A. Wills, chemist and druggist, Victoria Street, for drugs for Mardy Hospital.

The Society of Apothecaries has decided to allow the Guardians of the City of London Union a discount of 22½ per cent. on drugs, etc., in future, instead of 17½ per cent.

Birmingham.

Medical men are advertising for ladies to combine the duties of dispensing and bookkeeping.

The shop of Palmer & Co., Ltd., in Temple Row has been closed and the business transferred to their Cherry Street branch.

In an antique shop in Lower Temple Street there are some interesting pharmaceutical relics in the shape of metal mortars.

Among the courses announced by the Birmingham University as open in the coming session to both men and women are dentistry and brewing.

Miss Dorothy Rolason, pharmacist, formerly dispenser at the Western House Infirmary, Birmingham, has removed to London to train for war-work in France.

Miss Rooke, who recently passed the Apothecaries' Hall examination in dispensing, is assisting Mr. J. W. Shields, chemist and druggist, Moseley Road, Birmingham.

Mr. Joseph Spencer, a dentist who was formerly in business as a chemist, recently advertised on behalf of one of his patients for a lost set of false teeth: this is one of three similar requests in the local Press.

One Coventry boy has died, and another is in hospital, as the result of eating nightshade-berries. At the inquest on the former the Coroner suggested that mothers and teachers should warn children against eating berries from the hedges.

Mr. J. Drew, chemist and druggist, who for many years carried on business in Highgate Road, has adopted the *rôle* of *locum tenens*, and is just now helping Mr. Blackbourn, Longmore Street, Birmingham.

There has been an unusual amount of sickness among our pharmacists lately. Messrs. Howes and Horton are *hors de combat*, as are several others. At the recent Association meeting one speaker remarked that he was unable to get help, although prepared to pay as much as 3*l.* per week to an Apothecaries' Hall dispenser.

Liverpool.

Recent visits from two Manchester pharmacists, Mr. John Cleworth and Mr. William Kirkby, M.Sc., have been highly appreciated.

Sanagen forms a popular window-display here. The use of dummies for a background is extending, and the stress of work is apparent in simplified window-dressing.

The recent *C. & D.* note on obtaining sugar for manufacturing-purposes (*C. & D.*, August 11, p. 43) has resulted in applications for supplies needed in syrup-making. So far, no distribution has been reported, and the cool weather accentuates the difficulty of the position.

The volume of retail trade is considerable for the season, but the chances of normal profits are discounted by lack of supplies, high prices, and paucity of assistance. It has become a daily occurrence to find pharmacists snatching a meal behind the dispensing-counter. The need of closing-hours for meals has grown imperative.

Sheffield.

The local military hospitals have obtained a supply of acriflavine from the laboratories of Boots, Ltd.

Several of our leading windows are showing Hazeline Snow, which, with a recessed landscape showcard, makes a dainty display.

There is a general feeling of sympathy among local pharmacists with the aims of the Progressive Pharmacy Club, but its distance from here materially reduces the advantages of joining.

Mr. J. W. J. Turner, Ph.C., lately manager for Mr. H. G. Fletcher, chemist and druggist, Eckrington, and formerly one of the principals of the Sheffield College of Pharmacy, has been appointed manager to Eldred & Inge, High Street, Winchester.

Professor Ripper, Vice-Chancellor of the University of Sheffield, has been made a Companion of the new Order of the British Empire. The membership of the same Order has been conferred on Mr. W. E. Hart, Town Clerk of Sheffield and Clerk to the Insurance Committee.

Miscellaneous.

EXPLOSION.—One man was killed and five others badly burned by an explosion at the works of Joseph Crosfield & Sons, Ltd., chemical and soap manufacturers, Warrington, on August 29.

WINDOW-CLEANER'S FALL.—While cleaning the windows of Boots, Ltd., Market Place, Chorley, on August 24, a man named Albert Porter overbalanced and fell into the roadway, alighting on his head. He was removed to the hospital.

FOOD CONTROL.—The following pharmacists and manufacturing chemists have been appointed members of their respective Food Control Committees: Messrs. W. Adams, Ph.C., Shrewsbury; G. J. Gostling, J.P., Stowmarket; W. G. Hutchinson, Burton-on-Trent; H. Meynell, Tenterden; and W. H. Wandless, Whitehaven.

BICYCLE THEFT.—Previous convictions having been proved against him, Alfred Gascoigne, general dealer, was at Old Street Police Court, London, E.C., sentenced to six months' hard labour for stealing from the porch of a church at Croydon a bicycle, value 4*l.*, the property of Miss Gertrude King, chemist's assistant.

EARLY-CLOSING MOVEMENT.—The Council of the Bradford Chamber of Trade has decided to urge the Government to continue the national Early-closing Order for the duration of the war and at least six months afterwards. The Chamber sent a request to all trade Sections and affiliated Associations to forward separate recommendations of a similar nature to the Home Office.

"JAM-MAKING IN WAR-TIME."—The Board of Agriculture (3 St. James's Square, London, S.W. 1) has issued Food Production Leaflet No. 4 under this title. It deals with the use of mixtures of glucose and sugar or glucose only in jam-making. The price of glucose is given as 7*d.* or 8*d.* per lb. For sweetening glucose jam "saxin" tabloids are recommended. The leaflet is sent free on application, and the letters asking for it need not be stamped.

ELECTROLYTIC DISINFECTANT.—The recently issued annual report on the sanitary condition and vital statistics of Poplar (which includes the registration districts of Bromley and Bow) contains figures relative to the electrolytic disinfectant-fluid which is manufactured by the Borough at a cost of less than a halfpenny per gal. In public swimming-baths alone 6,353 gals. has been used during the past year; and since the original instalment of the plant, eleven years ago, 445,569 gals. has been supplied.

SALE OF POISONS.—"F. R. S.," who states that he teaches toxicology at a medical school, wrote to the "Times" to complain that under the present war regulations he is "precluded from purchasing the smallest quantity of any reagent" required for his work unless he goes to one of his old pupils for an order. Mr. W. J. Uglow Woolcock the next day replied that "F. R. S." has been misinformed, and adds that the restrictions on the supply of poisons and poisonous substances do not make it impossible for scientific workers to obtain such reagents as they may require.

Neither the Pharmacy Acts nor the Defence of the Realm Regulations prohibit the supply of poisons, but merely regulate the supply, the object being not the harassing of scientists but the protection of the public.

Poisonings.—The fatal cases of poisoning reported during the week include the following: At an inquest held at Westminster on Edward Arthur Cook, an accountant's secretary, evidence was given to the effect that he entered a tea-shop in the Strand, ordered a cup of coffee, and in a few minutes was found unconscious. A paper smelling of potassium cyanide was found on the table, and the jury found that death was due to that poison.—An unknown man was found unconscious at 2 Elm Row, Edinburgh, on August 28. On removal to the Royal Infirmary he was found to be suffering from narcotic-poisoning, of which he died the same day.—At Belfast, Elizabeth Jones died from the effects of oxalic acid, self-administered. The verdict at the inquest was "Death from poison while labouring under impulsive insanity."

Commercial Education.—A deputation from the Commercial Education Committee of the London Chamber of Commerce recently waited on Mr. Herbert Fisher, the President of the Board of Education. The deputation submitted that commercial education should have equal recognition with technical education; that adequate facilities should be given to the training of teachers in commercial subjects, for which business men rather than teachers should be trained; that separate schools or institutes should be established, at which commercial training should be given to those intended for commerce; that employers be requested to arrange for the continuance of the commercial studies of their staffs during the daytime, and until they reach their eighteenth year; and that grants be paid for the efficient educational teaching of commercial subjects, particularly in the case of modern foreign languages for commercial purposes.

Warning.—The Acting-Secretary of the "Snapshots from Home" League asks us to warn photographic chemists regarding a plausible scoundrel who, by means of a particularly malicious trick, stole a No. 2 Autographic Brownie camera from Miss L. Bayliss, assistant to Mr. W. E. Mason, M.P.S., of 89 Acre Lane, Brixton, S.W. On August 17 a rather thin, dark man, wearing *pince nez*, called at Mr. Mason's shop and asked if he could borrow a good camera. He was told that they only sold new apparatus, and had no cameras for hire. This man represented that he was on the headquarters staff of the Y.M.C.A. "Snapshots from Home" League, and had come to Brixton to take a few photographs for the soldiers. He showed Miss Bayliss some coloured miniatures which he said were his own work, and after some conversation, and on being pressed to lend a camera "for the good of the cause," Miss Bayliss offered to lend him her own camera, which he promised to return within two hours. The name he gave was J. Woodford. He has not returned the camera. No person of that name is connected with the "Snapshots from Home" League staff, nor is there any worker for the League of that name and initial. Any information which may lead to his arrest will be gratefully received by Mr. Mason.

Irish News.

Brevities.

Mr. Patrick Gleeson, Ph.C., has started business on his own account at Main Street, Bruff, co. Limerick.

At the annual sports of the co. Antrim Agricultural Society in Ballymena last week the prizes were distributed by Miss Lancashire, daughter of Mr. Huston Lancashire, J.P., Ph.C.

The Belfast Stipendiary Magistrate last week remarked on the number of cases which he had dealt with of drunkenness from methylated-spirit drinking. Further restrictions, he said, should be placed on the sale of the spirit.

Mr. Morgan M. D'Arcy, Ph.C., Tipperary, has received many congratulations on his winning first prize in the driving competition at the Tipperary show last week with "Pink Pills." Mr. D'Arcy has been a competitor in the driving competitions at local shows for over a quarter of a century, and his success has been very popular.

At the monthly meeting of the Youghal Urban District Council, Mr. Aherne drew attention to the prompt action of Mr. M. O'Sullivan, Ph.C., Queenstown, who while on a visit there saved the life of a young man who had collapsed while bathing (*C. & D.*, August 18, p. 36). The Clerk was asked to bring the matter under notice in the proper quarter.

Scottish News.

Brevities.

After a lapse of several years, the mining of copper ore has been resumed in Ayrshire under promising auspices.

Some wholesale firms are now charging 6*d.* for the straw used in packing. The amount is credited on return with empties.

Mr. J. Skinner, chemist and druggist, 12 Barnton Street, Stirling, has been appointed to supply the drugs to Stirling Combination Hospital for the ensuing year.

On August 9 a general cessation of business took place in Shetland; every available person was on the moors gathering sphagnum moss for dressings. Over 2,000 sacks were shipped to the South for military hospitals.

The Scottish Shopkeepers' and Assistants' Union has approached the Secretary for Scotland with a view to obtaining a permanent closing order for 7 P.M. and the prohibition of Sunday trading. During closing-hours urgent medicines could be supplied, at discretion, at the pharmacist's private door.

For the third year in succession the championship cup presented to the St. Fergus Bowling Club in 1891 by the late Mr. Alexander Geddes has been won by Mr. George Banks, chemist and druggist, Bridge Street, Wick. The cup now becomes his own property. He is the first member of the Club to win it outright.

Scottish pharmacists express high appreciation of the efforts of The Chemist and Druggist to secure proper recognition for pharmacists in the Army. It is felt that the timely publication of an American view in the last issue (*C. & D.*, August 25, p. 44) should strengthen the hands of the Pharmaceutical Committee.

Aberdeen.

The action of the Northern Co-operative Co., Ltd., in making membership of the Shop Assistants' Union a condition of employment (*C. & D.*, July 14, p. 35), has been challenged by an apprentice in the drug department, after the remainder of the staff had reluctantly accepted the new stipulation. Notice of dismissal having been served by the directors, it was pointed out on behalf of the apprentice that of the term of four years mutually agreed upon there was over two years still to run, and that the board was not entitled to introduce new terms of service till the expiration of that time. Thus "brought to book," the directors reconsidered their ukase, and decided that, so far as apprentice-chemists are concerned, trade-union membership is optional. Local chemists are asking whether in future pharmacy is to take its cue from the Pharmaceutical Society or the Shop Assistants' Union.

Edinburgh.

About sixty barrels of white petroleum jelly from a prize cargo lying at Leith are to be sold by auction.

A paragraph in a local paper controverting the statement that war-bread is fattening has given an impetus to the weighing habit. Pharmacists are realising in some cases upwards of 5*s.* a month by taking weights.

Those "in the know" do not think there is any probability of change in the National Insurance arrangements for 1918. Current accounts are well within the resources of the Drug Fund in Scotland, and there is little risk of discounting.

It is strange that a carelessly packed parcel sometimes arrives safely. A chemist received by post the other morning an empty poison-bottle, wrapped only in brown paper, from a customer who is holidaying in Wales. The bottle was unscathed.

Owing to the calling-up of men to the Colours, chemists are being forced to work at great pressure. In many cases, where men are single-handed, premises are now closed during the dinner-hour, and this temporary stoppage is becoming pretty general.

Glasgow.

Classes in botany, chemistry, and allied subjects will be resumed on September 25 at the Royal Technical College, Glasgow.

As usual at this season of the year, the botanic gardens are the rendezvous of students. Various forms of fruit may now be "practically studied."

Users of saccharin among the public profess to be puzzled by the big advance in price. Pharmacists, however, are at a loss to know how to replenish their stocks, which are rapidly becoming exhausted.

Six months' imprisonment was given at Glasgow Sheriff Court on August 26 to a woman named Prior, *alias* Robertson, who was convicted of child neglect, and was said to be a consumer of methylated spirit.

French News.

(From the "C. & D." Paris Correspondent.)

CHEMICAL-PRODUCTS.—The "Journal Officiel" recently published a notice stating that a tax of 2.00f. will be collected for each licence concerning chemical-products. This payment will have to be made in advance, the receipt having to be added to the application for licence.

MEDICINE STAMP-TAX.—The new tax on pharmaceutical specialities came into force on June 1, and is causing considerable trouble to pharmacists from the absence of a clear ruling as to what articles require the stamp. The stamp which is used is in band-form, like the British stamp, but a design upon it is printed in blue.

A NEW SOCIETY OF CHEMICAL INDUSTRY has been formed in Paris to establish permanent contact between science and manufactures by means of a periodical publication, lectures, congresses, competitions, and exhibitions. Professor Haller, of the Academy of Sciences, is the President, and the offices are at 49 Rue des Mathurins. Manufacturers, scientists, engineers, and chemists are invited to join, the idea being to assure France's success in this important branch of industry after the war.

Bareges in War-time.

ON an August morning, pleasant and fresh, as one might expect at an altitude of 4,000 feet above sea level, I slung on my knapsack to quit Barèges *en route* for Gavarnie. But just as I was passing the last houses of the village—for Barèges is little more than a village—I noticed over a door the sign "Pharmacie," surrounded by the tricolor flag of the French Touring Club, and a notice to the effect that the pharmacist was the local "delegate." As pharmacist and tourist I accepted what seemed a double invitation, and I entered.

There was neither show-window nor name, but the eye was struck by the familiar bottles and jars round the walls, and, on a table, vases of the blue iris that is the ornament of the mountain slopes in early August. A kindly greeting, the offer of a seat, and we chatted.

"Yes, Barèges has an old-established reputation for curing wounds," said my pharmacist. "One doesn't get many statistics in war-time, but some 600 soldiers came here in 1915, and we reckon that at least two-thirds profited by the treatment: that is the percentage for civilians. The military hospital accommodates seventy officers and 300 men, but there are quite a number of officers who live at the hotels.

"Our reputation," he continued, "dates from the cure of Louis XIV.'s son, the Duc de Maine, in 1675 or so: Louis XV. sent soldiers here, and several of Napoleon's marshals came."

"But what is this 'Barègine' exactly?"

"A gelatinous matter, containing living organisms, microscopic plants, or infusoria, but which seems to defy exact analysis. Of course, you know the waters are sulphurous, arsenical, etc., in different degrees; there are fifteen kinds, and the temperature varies from 21° Centigrade"——

"To 45°. I tried them with my hand this morning. There is a sort of bar, too, where people drink."

"Yes, patients usually try to increase the action of the waters by using them as a beverage as well. The special virtue seems to be the elimination of foreign matters, or perhaps I should say displaced matters—for instance, the shards of a shell or splinters of fractured bone. You see the interest of such treatment in a war like this." Just now, I gathered, the Baths are in use day and night. Every night, when they are closed to the public, a passage is unlocked communicating with the military hospital: in the morning the process is reversed.

The obvious traces of local avalanches prompted a question as to the safety of the thermal establishment. I was assured that both it and the military hospital are so solid and so deeply built into the ground that they defy any such visitation. "So does my pharmacy," added the chemist. "You see, it's only two storeys high, and the walls are two feet thick." Barèges he described as, in the main, a man's health-resort, but added that there was a small gynæcological establishment at Barzun, not far away.

"And how are things in general?" I queried.

"Pretty fair. Our season is short, as Barèges is buried in the snows in winter. I don't think the place is enterprising enough. It wants advertising."

I acquiesced, as politeness required. But personally I felt that the real charm of this little place was its primitive simplicity, unspoilt by "modern progress."

German News.

TEA-SUBSTITUTES have advanced in price owing to the poorness of this year's crops (*C. & D.*, August 11, p. 37) and the enhanced cost of packing and transport.

PAPER-SHORTAGE.—The principal medical journals in Germany have advanced their prices 4m. per annum in consequence of the increased price of paper.

PROFESSOR EDUARD BUCHNER, Ph.D., who was awarded the Nobel Prize for chemistry in 1907, has been killed on the Western Front near Verdun. He held the rank of major in the German army.

HOLIDAYS.—It has been suggested that the pharmacies of Bavaria, which in rotation close during part of the afternoon and on Sundays, should similarly close for a week to facilitate holidays for both principals and assistants. The necessary permission has been refused in Nuremberg, but granted in the Palatinate.

RAW MATERIALS.—The Hamburg Association of Pharmaceutical Manufacturers has sent a memorial to the Government Commissioner for Transitional Trade and Industry claiming special consideration in the matter of raw materials. The Association points out that a sufficiency of drugs in the home market is a necessity, and, further, that the comparatively few raw materials required represent a high monetary value in their export form as finished products. These products occupy very little shipping-room, and have only partially been replaced in other countries during the war.

SUBSTITUTES IN DRESSINGS.—The War Raw Material Department allows only half the normal peace-time quantities of materials for surgical dressings to be used, and destines two-fifths of these for private use. As the hospitals are filled with wounded the shortage in this department is acute, and has prompted the production of such substitutes as cellulose wadding and crêpe-paper bandages. The "Kölnische Zeitung" lectures its readers on the general unwillingness to accept these makeshifts, and sorrowfully quotes from a Cologne pharmacist's letter to his wholesaler as follows: "That you wish to force me to buy goods which I do not require should be sufficient reason for myself and my colleagues to stop buying from your factory, even after the war."

PRODUCTION OF RESIN.—Resin is a highly important product for both industrial and war purposes. It is used in the manufacture of paper, printer's ink, soap, roofing-felt, brewer's pitch, cable tar, lubricating-oil, colours, varnish, and armaments. Germany drew her peace-time supply of resin, amounting to about 800,000 d. ctr. per year, and its products, mainly from America and the South of France, but is now forced to resort to her own woods. So far as is known, between one and one and a half million pine-trees were tapped in the Bavarian State woods last spring, the cost per d. ctr. of resin being about ten times as much as imported peace-time resin. The most urgent demands for resin were just covered. It has now been found necessary to resort to the use of spruce as well as pine, but the yield of resin from spruce is not nearly so rich in turpentine as that from the pine. All crude resin must be delivered to the War Committee for Oils and Fats, which will this year pay per d. ctr. of pine resin, f.o.r., 300m.; spruce-notch resin, 120m.; spruce-deer resin—*i.e.*, resin obtained from the wounds inflicted in spruce-trees by stags—70m.

EXPORT ORGANISATIONS.—The following are the chief organisations which existed in Germany before the war for the purpose of fostering export trade: The Export Sample Depôt (Export-Musterlager), Stuttgart; the German Export Bank (Deutsche Export-bank A.G.), Berlin; the Export Association for Saxony (Exportverein für das Königreich Sachsen); the Commercial Museum (Handels-Museum), Frankfort; the Thuringian Sample Depôt (Thüringer Musterlager); the Museum of Natural Science, Ethnography, and Commerce in Bremen, Commerce Section, Commercial Museum (Museum für Natur-, Völker und Handelskunde in Bremen, Abteilung für Handelskunde, Handels-Museum); the German Export Sample Depôt (Deutsches Export-Musterlager), Berlin; Industrial Museum at Brunswick (Industrie-Museum, Braunschweig); the Eastern Commercial Museum and the German-Austrian Eastern Club (Orient-Handels-Museum und deutsch-österreichischer Orient-Klub), Berlin; the Bureau of Information as to the Sources of Supply (Bezugsquellen-Auskunftei G.m.b.H.), Berlin; the German Export Information Bureau (Deutsches Export-Informations-bureau), Cologne; the Lubeck Museum; the Committee for Colonial Economy (Kolonialwirtschaftliches Komitee); and the German Overseas Bank (Deutsche Ueberseeische Bank), Berlin.

Legal Reports.

Business Name Registration.—At Clerkenwell Police Court on August 27, Bruno Max Emil Sherwood, Verulam Street, Gray's Inn Road, London, was fined 5*l.*, with 5*l.* 5*s.* costs, for sending to Sydney Tubbs, at Basinghall Street, a letter in which his former surname and nationality of origin, not being British, was not mentioned in legible characters. It was stated that Mr. Tubbs was administering the affairs of Schultz & Co., optical-instrument makers, and Sherwood, who had acted as secretary to the company, wrote to him, but the notepaper did not state that his former name was Schultz, and that he was a German.

Action against a Doctor.—In the King's Bench Division, Dublin, on August 23, application was made in the case of Fisher *v.* McElwaine for an order remitting the action for trial to the County Court Judge of Cavan. Defendant, who is a medical man at Bailieborough, co. Cavan, and keeps a shop there, made an affidavit in which he stated that the action was brought against him by the plaintiff to recover damages for personal injuries sustained through his negligence. He had a good defence to the action; neither himself nor his servants were guilty of any negligence whatsoever towards the plaintiff, nor did the plaintiff suffer any damage through his neglect or default. The plaintiff applied to him on July 2 for one pennyworth of carbolic oil, and it was supplied to him. The oil was made up with three drops of carbolic acid to about one teaspoonful of oil. The plaintiff afterwards came back and alleged that he (defendant) had given him pure carbolic acid, which was quite untrue. The Lord Chief Justice remitted the action to the County Court Judge.

Pharmacy Act (Ireland).—In the Dublin Police Court on August 28, before Mr. Drury, Metropolitan Police Magistrate, Mrs. Helena M. Montgomery Murray, 76 Dame Street, Dublin, was charged, at the instance of the Pharmaceutical Society of Ireland, with having committed breaches of the Pharmacy Act (Ireland), 1875. Three of the summonses were for having kept open shop for dispensing or compounding medical prescriptions without being properly qualified according to law; another summons was for having sold laudanum; and she was charged on a fifth summons with having on the same date kept open shop for retailing, dispensing, or compounding poisons. Mr. William Campbell Meeke, solicitor, appeared for the prosecution, and Mr. Christopher Friery, solicitor, for the defence. Mr. Arthur T. Ferrall, Registrar of the Pharmaceutical Society of Ireland, was also in court. Mr. Meeke, in stating the case for the prosecution, said the defendant, Mrs. Murray, was the widow of Mr. T. J. Montgomery, who had been a duly qualified chemist carrying on business at 76 Dame Street, and who died in July or August 1915. From that time up to the present his widow had carried on the business, as she was entitled to do under certain circumstances. Shortly after the death of her husband the defendant called and saw the Registrar of the Pharmaceutical Society, and discussed with him the manner in which the business could legally be conducted. The arrangements were that she was to carry on the business as required by law. Almost from that time up to the present she had been breaking the law. According to law the executor or administrator of a pharmaceutical chemist is entitled to carry on the business while that business is managed or conducted by a duly qualified pharmaceutical chemist. This lady had persistently carried on the business without a pharmaceutical chemist or with a pharmaceutical chemist only at long intervals. The Society's patience was exhausted, and they sent their inspector, who called at the premises on three dates—July 25, 27, and 28. On each of these occasions a prescription was compounded, and on one occasion poison was sold. On none of these occasions was there a pharmaceutical chemist in the place. The proceedings were taken under Section 30 of the Pharmacy Act (Ireland), 1875, which provided that it shall be unlawful for any person to sell or keep open shop for retailing, dispensing, or compounding poisons or medical prescriptions unless such person be registered as a pharmaceutical chemist or a chemist and druggist. Section 32 of the Pharmacy Act, 1875, provided that upon the decease of any person registered under the Act as a pharmaceutical chemist or as a chemist and druggist actually in business at the time of his death, it shall be lawful for any executor, administrator, or trustee of the estate to continue the business if and so long as the business is *bona fide* conducted by a duly qualified assistant, who should be, within the meaning of the section, a pharmaceutical chemist or a chemist and druggist, registered as such under the Act. The substantial question to be determined in this case is whether there was a pharmaceutical chemist actually in charge of the business on the dates to which he had referred. There might be a broader and more intricate question of law to be considered—he hoped not—as to the meaning of the words in Section 32 "it shall be lawful for any executor, administrator, or trustee of the estate of such pharmaceutical chemist . . . to continue such business, etc."—whether such executor, administrator, or trustee was to be allowed to carry on the business in perpetuity, as it were, regardless of the fact that the estate might have been administered, or, as he was instructed had occurred in this case, the widow, who had since married a second time, was the sole next-of-kin, and took the business for her own use absolutely. The business appeared to have been conducted by Mr. T. J. Montgomery, but on the labels on the bottles, and on the envelope in which the prescription was handed back, the inscription was "Montgomery & Co." He did not know whether that could be explained or not. These proceedings had been taken against this lady with the greatest possible reluctance. The Pharmaceutical Society had the utmost sympathy with her, and had extended to her the utmost consideration. It is a matter of protecting the interests of duly qualified persons and persons legally entitled to carry on the business, but the proceedings were also taken in the interests of the public and to prevent the public being the victims of mistakes in a place like this, doing, as he was instructed, a large business without a qualified person. On July 25, 27, and 28 the only assistant in the place or belonging to it was a gentleman named O'Halloran. His clients had been unable to trace whether Mr. O'Halloran had any experience. He did not appear in the books of the Pharmaceutical Society as having passed any of their examinations—Preliminary or other. Whether he was an unqualified assistant he (Mr. Meeke) could not say. He had attended the Society's Chemistry School for three months, and the Materia Medica and Botany School for three months. So far as they knew he knew nothing about the business, and it was quite clear that he is not a duly qualified chemist. Mr. Drury asked whether the facts were admitted? Mr. Friery said they were not. He would be able to show that his client had a qualified assistant—Dr. Sammon, her brother, who was a medical doctor, and also Licentiate of the Apothecaries' Hall. Mr. Meeke said he was instructed that Dr. Sammon had gone three or four days before July 25. Mr. Patrick Butler, inspector of the Pharmaceutical Society, stated that he visited the premises on July 25. He saw Mrs. Murray and an assistant, Mr. O'Halloran, there. He handed Mr. O'Halloran a prescription, and paid 1*s.* 6*d.* for the bottle. The prescription was marked "T. J. Montgomery, M.P.S.I., Pharmaceutical Chemist." Mrs. Murray herself took no part in that transaction. Before leaving the shop he asked Mr. O'Halloran about Dr. Sammon, and Mr. O'Halloran said he had gone to Belfast two or three days previously. When he visited the premises on June 27, Mrs. Murray was there, but there was no assistant. He handed the prescription to Mrs. Murray, and she compounded it herself. By means of a mirror he saw her do it. He asked her for 2*d.* worth of linseed meal and 6*d.* worth of laudanum to put in it, stating that he had pains in his back. She told him iodine might be better. He said he had used the other on previous occasions and that it had always given him great relief. Mrs. Murray gave him 6*d.* worth of laudanum. The bottle was labelled "Laudanum—Poison. Montgomery and Co., Prescription Chemists, 76 Dame Street, Dublin." Witness also gave evidence as to his visit to the premises on July 28. Mr. O'Halloran compounded the prescription on that occasion. While he was there some other customers came in, and Mr. O'Halloran compounded prescriptions for them. Mr. Drury (to Mr. Friery): Do you claim that O'Halloran is a qualified chemist? Mr. Friery said he did not. During these days Dr. Sammon unfortunately was away. But he had an affidavit saying that he was in charge those days. Mr. Drury said Dr. Sammon was not there on those days. There must be a qualified man on the premises always. On the evidence the law had been broken. Mr. Friery said Dr. Sammon, a brother of Mrs. Murray, was actually in charge of the shop at the time. He was negotiating to join the Army and went away for a day or two. He had joined the Army Medical Corps, and had sworn an affidavit that from the month of July 1917 to the date on which he joined the Army he managed the business carried on by his sister at 76 Dame Street. There is a qualified assistant there now—Mr. Roche, who is a member of the Pharmaceutical Society. Mr. Drury imposed a fine of 2*l.* on each of the summonses, with 5*l.* 5*s.* costs.

Drinking-water contaminated with zinc in the proportion of 2.5 to 4.72 parts of the metal per 100,000 has been found to create no disturbance of health.—*Lancet*, I., 1917, p. 1010.

Birth.

Bull.—At 14 North Road, West Bridgford, Notts, on August 29, the wife of B. A. Bull, Ph.C., F.C.S., of a son.

Marriages.

East—Plattin.—At St. John's Church, Moulsham, Chelmsford, recently, H. W. East, Elsworth, Cambs, to Audrey Elizabeth, youngest daughter of Mr. H. R. Plattin, pharmacist, Moulsham.

Pearson—Birtwistle.—At Park Road Congregational Church, Blackburn, on August 23, Herbert Pearson, B.Sc., works chemist to Evans Sons Lescher & Webb, Ltd., Liverpool, to Emily Birtwistle, both of Blackburn.

Peebles—Richards.—At Christ Church, Greenwich, on August 23, Edward Sidney Peebles, chemist and druggist, 36 Dinsdale Road, Blackheath, London, S.E., to Lucy A., youngest daughter of Mr. Robert Richards, Leamington Villa, Upton Manor, London, E.

Deaths.

Anderson.—At Viewhouse, Denny, Stirling, on August 27, suddenly, Mr. Edmund Hardie Anderson, chemist and druggist, aged seventy-nine.

Gibson.—At Belfast last week, Mr. Charles Gibson, chemist and druggist. He was a son of the late Mr. William Gibson, Raudox, Crumlin, served his apprenticeship with Chapman & Co., Ann Street, Belfast, and was registered in 1891. He carried on business at 125 Sandy Row, Belfast, for the past twenty-two years. He was an enthusiastic agriculturist, and a member of the old City Gymnasium Club. The funeral took place on August 22.

Grey.—At Howick House, Northumberland, on August 29, Earl Grey, P.C., G.C.B., G.C.M.G., G.C.V.O., aged sixty-six. He was Governor-General and Commander-in-Chief of Canada from 1904 to 1911, and was previously Administrator of Rhodesia. His portrait was published in The Chemist and Druggist, April 26, 1913, on the occasion of his election as President of the Royal Colonial Institute.

Mason.—At Market Place, Wirksworth, Derbyshire, on August 14, Mr. Michael Mason, chemist and druggist, aged eighty-one.

Morrison.—At 24 Rosslyn Crescent, Edinburgh, on August 24, Mr. John McGregor Morrison, pharmacist. Mr. McGregor, who qualified in 1890, was a well-known athlete. Some weeks ago he contracted pneumonia with fatal results. He is survived by a widow. At the funeral, on August 28, several members of the craft were present, including Mr. Beaumont and Dr. Coull.

Oliver.—At 137 Main Street, Cambuslang, on August 12, Mr. John Thompson Oliver, chemist and druggist, aged thirty-eight.

Symons.—At Bath, on August 25, Dr. William Henry Symons, medical officer of health, aged sixty-two. Dr. Symons was born at Barnstaple, and was apprenticed to his father, who was a chemist there. He passed the Minor examination in 1873, and the Major a few months afterwards. Like his father, he early in his career became a Fellow of the Chemical Society, and Dr. Symons' earliest contribution to chemical literature was on the solubility of turpentine in glacial acetic acid, a subject upon which his father had also worked. The present official formula for lin. tereb. acet. is the outcome of these investigations. He was in business as a chemist at Queen's Terrace, St. John's Wood, London, and read several papers before the Chemists' Assistants' Association; afterwards he became chemist to Idris & Co., Ltd., and an outcome of his work with Messrs. Idris was a method of purifying lithium salts, papers arising out of this investigation being contributed to The Chemist and Druggist in 1890. Papers were also given before the British Pharmaceutical Conference on "Tumefaction as an Aid to the Identification of Starch," and on ipecacuanha-wine. In collaboration with Mr. A. W. Gerrard some good work was done on ulexine. Dr. Symons was an examiner for the Pharmaceutical Society for ten years from July 1884. During this period he turned his attention to medical matters, and in 1894 became a Licentiate of the Society of Apothecaries, M.R.C.S., L.R.C.P. Lond., and M.D. (Brux.). The following year he took the Diplomas in Public Health of Durham and Oxford. In 1896 he was appointed medical officer of health for the City of Bath, and since then he has especially devoted himself to matters relating to public health, his last paper before the Royal Sanitary Institute being on the fly nuisance. He made a hobby of meteorology, and had an observation station in his grounds at Combe Park, Bath. Although Dr. Symons has been out of the drug-trade for many years, he will be remembered by many in pharmacy who associated with him during his life in London. While studying for the Major he was a colleague of Dr. J. C. Thresh, who also branched off into Public Health, and made this part of the medical profession his life's work. The interment took place at Hampstead after cremation at Golder's Green, London, N.W.

Mr. F. H. Alcock, F.I.C., Birmingham, writes: "I learn with great regret of the death of Dr. Symons, Bath, whom I met first at the meetings of the London Chemists' Assistants' Association. Sir Richard Winfrey was connected with the Association at the same time. Dr. Symons had a wide circle of friends in and outside Modern Babylon."

Wheeler.—At The Pharmacy, Korumburra, Victoria, on June 26, Mr. Frederick Wheeler, pharmacist, aged seventy. Mr. Wheeler, who as a boy was with Mr. William Smith, Walworth Road, London, S.E., went to Australia in 1864, and, after following the gold rush, resided from 1871 to 1914 at Alexandra, where he carried on business as pharmacist, dentist, etc., and filled various public offices. He was the senior on the Victoria Register of Pharmacists.

Died on Service.

Brown.—Lieutenant Laurence Crawford Brown, Royal Inniskilling Fusiliers, is reported killed in action. He was the eldest son of Mr. Robert Brown, Agharainey, Donaghmore, head of the firm of D. Brown & Co., soap-manufacturers. A chaplain, in writing to his father, said that the deceased officer was respected by all the officers and men of his regiment. He met his death at the hands of an enemy sniper while gallantly leading his men. Lieutenant Brown was in the United States when war broke out, and, returning home, volunteered in the R.A.M.C. He received his commission in the Royal Inniskilling Fusiliers twelve months ago.

Butterworth.—Sergeant Albert Butterworth, Black Watch, has been killed in action. He enlisted in January 1916 from the Oldfield Road, Salford, branch of Boots, Ltd.

Calcraft.—Rifleman Thomas Calcraft, who was for five years with the British Drug Stores at Southend before he enlisted at the outbreak of war, has fallen in action.

Evans.—Rifleman Hazel A. Evans, who represented Parke, Davis & Co. on the South Coast from February 1914 until he joined the Army in 1916, was killed in France on August 14.

Gylee.—Gunner Gylee, Royal Field Artillery, has died of wounds received in action. He served his apprenticeship to pharmacy with Mr. E. R. Dixon, chemist and druggist, Lincoln, and enlisted whilst in business for himself at Luton.

Hotchin.—Corporal J. G. Hotchin, Royal Horse Artillery, has fallen in action. He was formerly assistant with Mr. T. R. Perkins, pharmacist, Henley-in-Arden (Warwickshire), and was then engaged at Harrow, enlisting from there at the outbreak of war.

Mullen.—Lance-Corporal John Mullen, who served his apprenticeship with Mr. Aspell, chemist and druggist, Buck's Road, Douglas (Isle of Man), is reported killed in action.

Rossall.—Lance-Corporal William Rossall, King's Own (Royal Lancaster Regiment), is reported killed. He had been in France two years, and was formerly at the works of the United Alkali Co., Ltd., Fleetwood.

Smith.—Private A. Smith, West Yorkshire Regiment, formerly on the staff of Clemons, Marshall & Carbert, dyeware-manufacturers, Hunslet, Leeds, who was reported missing and wounded some time ago, is now officially listed among those presumed killed in action.

It cannot be denied that science, as science, has only very recently been allowed to have an independent existence in our national intellectual system.—*Professor D. Fraser Harris.*

Blood Charcoal.—Mr. Sydney W. Cole, Biochemical Laboratory, Cambridge, states that he is unable to find British sources of pure blood charcoal. This is a reagent of considerable importance to the physiological chemist. It is not only required for the decolorisation of liquids, but also for selective absorption in an important series of quantitative estimations of animal fluids. Hitherto the supply has been obtained from Germany.

Trade Notes.

"DOING WITHOUT GERMANY." — Evans Sons Lescher & Webb, Ltd., Liverpool and London, tell in their advertisement in this issue what they have been doing to make this country independent in future of Germany. It is "a well-told tale" of difficulties overcome.

"REGINA" SHAVING-STICK.—Price's Patent Candle Co., Ltd., Battersea, London, S.W. 11, offer a sample of this British soap on receipt of postcard, and draw attention, in their advertisement in this issue, to the attractive margin of profit that it affords.

WINDOW-DISPLAYS.—By an oversight the wrong price was attached to the set of window-display components in the advertisement of Mr. W. Davis, 100 Wood Street, London, E.C., which appeared in our last issue. The price of the set 139 which is illustrated in the announcement is 71*s*.

FOR CHRISTMAS TRADE.—Dols & Co., Ltd., Lockwood's Yard Factory, Huddersfield, makers of Dols' "Condensed Tablets," urge their customers to place Christmas orders in good time so as to ensure delivery. The varieties of these tablets—which retail at 9*d*.—are mentioned in the company's advertisement.

SEED-DRESSING.—Tomlinson & Hayward, Ltd., agricultural chemists, Lincoln, in their advertisement in this issue call attention to the fact that they supply all the chemicals used for seed-dressing. These include carbolised seed-dressing, liquid non-poisonous dressing, and preparations made up from chemists' own formulæ.

DOLINE is a new British-made liquid dentifrice, which Arthur H. Cox & Co., Ltd., Brighton, refer to in their announcement in this issue. The dentifrice is packed in sprinkler-top bottles, and sells retail at 1*s*. 9*d*. per bottle. The chemist's name and address can be placed on the labels when certain quantities are purchased.

CHEMICAL PRICE-LIST.—Chas. Page & Co., 47-51 King William Street, London, E.C. 4, send us a copy of their monthly current price-list for chemicals, coal-tar, ammonia products, fertilisers, etc., which gives in a concise and comprehensive form all the products for which they are first-hands. A copy will be sent on application to wholesale buyers.

EUCALYPTUS OIL.—H. E. Stevenson & Co., 122 Great Suffolk Street, London, S.E., are well placed for eucalyptus oil, as they are agents for one of the largest distillers and exporters in Australia of B.P. and other grades of oil. Buyers would do well to look to their stocks in anticipation of the winter demand, as prices are advancing owing to lack of freight from Australia.

PACKED TOOTH-PASTE.—Sangers, 258 Euston Road, London, N.W. 1, offer to take on the troubles of chemists in regard to tooth-paste. Having the advantage of a modern factory, the firm can pack tooth-pastes more cheaply, expeditiously, and stylishly than is possible on a small scale. A chemist can have his own formula made up, and there are many stock lines to choose from.

ALCRESTA TABLETS.—Eli Lilly & Co., Indianapolis (British agents, John Morgan Richards & Sons, Ltd., 46 Holborn Viaduct, London, E.C.), call attention to the use of alcresta tablets in amœbic dysentery and pyorrhœa. Alcresta tablets contain the alkaloids of ipecacuanha absorbed by hydrated aluminium silicate, and represent the most modern method of administering this drug.

EVANS EXPAND.—Calling this week on Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C., we found all departments in a state of great activity. Recently steps have been taken to increase the area of the premises by the acquisition of an adjoining piece of land. As the erection of a permanent building on the ground is out of the question at present, a large one-storey temporary room has been erected which has helped to relieve the pressure on the various packing departments. Packing has been systematised by the institution of separate departments for London, the country, the Continent, India and the East, and other countries. The increased activity of the drug-business owing to the war has been intensified by the greater number of details required before shipment can take place. This has been met by the institution of special departments dealing with export permits. We also inspected the arrangements that have been made to place the staff in safety in case of enemy air-raids. The large "cellar cool" which accommodates essential oils is deep down in the earth, and forms a capital refuge from the peculiar brand of Hun warfare on "fortified" London. The fire-brigade and first-aid contingent have definite duties assigned to them, and the arrangements have been proved to work satisfactorily.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," August 22, 1917.)

"IDOL"; for chemicals (1) and for lactic acid (42). By G. McDonald & Co., 9 Botolph Lane, Eastcheap, E.C. 3. 378,897/931.

"BYCOL"; for chemicals (1). By B. Young & Co., Ltd., 24 Dunlop Place, Spa Road, Bermondsey, S.E. 16. 378,969.

"EAR REMEDY AURORYNE BRAND," "INDIGESTION REMEDY BISMOPEPTON BRAND," "CORN SOLVENT ESCHAROTIN BRAND," "URIC ELIMINANT EXURICIN BRAND," "MENSTRUAL REMEDY FEMINAX BRAND," "LIVER REMEDY HEPAXIN BRAND," "COUGH REMEDY TERPHYDROIN BRAND," "WORM REMEDY VERMEX BRAND," for medicinal chemicals (3); "LENSES DIAPHANAX BRAND," for scientific instruments, etc. (8); "BRILLIANTINE CAPILLOGEN BRAND," for perfumery, etc. (48). By S. F. Body, 167 High Street, Southend-on-Sea. 376,457/458/460/461/462/463/467/468, 376,469/470.

"HEALTH SALTS—SALITZ BRAND"; for aperient salts, etc. (3). By R. Kego, 287 Stonelaw Road, Burnside, Rutherglen, Glasgow. 378,409. (Associated.)

"ACIE"; for drugs and chemicals (3). By The American Commerce Co., Ltd., 19 St. Bride Street, E.C. 4. 378,468.

"SALVOINT"; for a medicine and ointment (3). By T. T. Hedges, 15 Mattock Lane, Ealing, W. 5. 378,477.

Device including words "HANCONITE" and "OLD BATTERSEA" on scrolls above and below clasped hands; for all goods (3) and for chalks (39). By H. H. Hancock, British Neuberg Chalk Factory, High Street, Battersea, S.W. 11. 378,497/499.

"SPECIFIC FOR NERVE TROUBLES SAFFN BRAND" in facsimile handwriting; for internal medicines (3). By W. A. W. McBride, Woodside Cottage, Westerham Hill, Kent. 378,500.

"DISCUS"; for waterproofed silk fabrics (31). By S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C. 1. 378,456. (Associated.)

"PHROSO"; for all goods (42). By J. Maddox & Co., 33 Smithfield Street, Liverpool. 378,590.

"KARSWOOD"; for food-substances (42). By E. Griffiths Hughes (Karswood), Ltd., 68 Deansgate Arcade, Manchester. 378,858. (Associated.)

Device including words "TARGET BRAND" and picture of target, "TARGET BRAND" separated by picture of target; for alcoholic essences (43). By Bratby & Hinchliffe, Ltd., Sandford Street, Ancoats, Manchester. 378,714/713. (Associated.)

"LOTION BRIAR" on conventional label design ("Briar" disclaimed); for perfumery, etc. (48). By J. & E. Atkinson, Ltd., 24 Old Bond Street, W. 1. 378,778. (Associated.)

"LUVAZ"; for all goods (48). By The Rock Chemical Co., 33A, Cambridge Street, Liverpool. 375,464. (Associated.)

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

106/53. Gadd's rheumatic pills.
116/2. "Bismag" (Bismag, Ltd.): address.
115/11. Collis's or Collin's "Nervine" pills.
115/70. "Salvida" pocket-case for distressed mariners.
116/4. Whitmore's compound tincture of arnica.
116/67. "Orlene" for deafness.
117/56. Perry's vermifuge.
117/56. "Esauline" (Knowles-Esauline Co.): address.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

"Acrosyl," 111/4
"Agarase," 98/50
"Amerind," 114/27
Anisol, 116/4
Argentide, 97/49
Asepsol, 99/73
Bath-cabinets, 100/59
"Bloom of Ninon," 117/56
"Bromo Adonis," 104/32
"California Syrup of Figs," 100/58
"Camilatone" shampoo, 98/39
Celandine, 117/56
Chloralose, 116/4
Chloramine, 114/33
Chromates and bichromates of potash and soda, 81/39
Churchill's syrup of hypophosphites, 113/41
"D.P." arm-sling, 111/2
"Dentasol," 79/23
"Dentol," 79/23
"Frozoclone," 105/48
Gillette safety-razor blades, 109/24
"Gloria" tonic tablets, 101/44
"Health" feeder, 103/34 and 104/34
"Hera" brand stick-liquorice (for Australia), 112/60
Herbaline, 74/18
Iodalbin, 109/6
"Iodogenol," 103/36
"Izal," 74/18
James' depilatory, 74/18
Kaufmann's sulphur bitters, 117/56
"Kelpion," 97/39
Langdale's essence of cinnamon, 74/18
Laxatin, 74/16
Martin's essence of pennyroyal, 74/18
Mawson's standard collodions, 87/14
Naldire's dog-soap, 118/17
Ointment-mills, 93/41
Perfumed bricks, 101/54
"Saludor" filter, 115/71
Zinc oxide, 102/73

Observations and Reflections.

By Xrayser II.

London

is in imperial affairs the most conservative portion of the United Kingdom, and it is rather curious that in pharmaceutical politics it is the most progressive. It was not always so. Time was when the Society was regarded by country chemists as the creature of the West-end pharmaceutical magnates, and as such indifferent to the wants of the rank-and-file, whose complaints, "steaming up, a lamentation and an ancient tale of wrong," they heard as a kind of "doleful music" enhancing their own bliss. I cannot say how much of this spirit (supposing it to have ever existed) survives at the West-end, but East and South and North are now fully awake to the necessities of pharmacy, and are playing a leading part in the organisation of the forces that make for reform. The obstructives now, I am told, are found mainly in our "cathedral cities," but this is a wide term and includes, as I happen to know, some places in which the progressive element is strong. The truth probably is that the forward policy more than once initiated by the London Associations is checked by little cliques of "super-pharmacists" in "superior" neighbourhoods, such as health-resorts, seaside ditto, some of the smaller "cathedral cities" and the more "swanky" suburbs of our larger towns. And then there is the invincible apathy of the mere countrymen, and the men so immersed in the cares of an unusually exacting struggle for existence. This last factor—for the *vis inertiæ* is in effect an active force—added to the rest of the forces of reaction, is quite sufficient to account for the situation. There is a real, I believe a vast, numerical majority of pharmacists eager for radical changes in our constitution and government, but under our present system of election they cannot get an effective voice in the Council, and their efforts in other directions are continually being thwarted by officials and wire-pullers in high places. One of the enemies of progress, and probably the worst, is government by Committees, which is what our Council really comes to. Five or six progressives might have some power, at least of speech, in full Council, but they have virtually none when distributed in artfully packed Committees. "Divide and govern," is the tyrant's maxim, whether the tyrant is a person or an oligarchy.

The Reason for this Change

in London opinion is not far to seek. Formerly the ordinary London pharmacist was as indifferent to the doings of the Society as his provincial brother, and for the same reason. He accepted them as the ways of Providence—of "them as is above us"—were accepted by the good wóman in "Silas Marner"; they were inscrutable, often unpleasant, but they were part of the natural order, and as they had not often any apparent close connection with us, we merely grumbled when we thought of them at all, much as the most pious souls may grumble at the weather. But the Insurance Act has changed all that. It has brought our Olympians out of the sky into the highways and byways of our daily life, and shown us what incompetent creatures they are where actual business is concerned. Time and again they have blundered where blundering meant disaster for us; they have thwarted our wishes and overridden our decisions, always to our disadvantage; they have spent our money on machinery whose creaking is the most obvious evidence of its working, and the expense of which is out of all proportion to any good we get from its working. Officials have been multiplied upon officials, committees upon committees, without co-ordination or mutual understanding. We have no effective check on anything, and can only speculate as to where our money has gone. Worst of all, we hold our position by a very precarious tenure, and on terms that make it scarcely worth holding at all. Result: the awakening of London.

The Metric System in Medicine

apparently appeals to the doctors to such an extent that the British Medical Association now wants it taught to students. One would have expected that this was the first requisite to the introduction of the system. We have reversed the natural process by first altering the practice, and then beginning to teach the theory. If the General Medical Council had been so certain of the virtues of the practice, they ought long ago to have insisted on the introduction of metric teaching into materia medica, pharmacy, and prescribing syllabuses in the curricula and examinations for degrees and diplomas, and the final stage would have been natural and easy. I notice, however, that the word "mil" has been laid hold of by the bankers, who propose that the new metric coinage be based on the sovereign and the "mil," the former to remain as at present and to be equal to 1,000 mils. But the "mil" having already been claimed by the General Medical Council, I suppose we are in for a struggle for its precious *corpus*, and should this happen I shall put my money on the bankers. The use of the cash "mil," as compared with the medical "mil," would be as a million to one, and I should not be at all surprised if, after all, we may once more have to go back to the despised c.c.

The Ethical Rules

laid down by the Melbourne Conference of April 24 presuppose a few things of which experience makes me doubtful—for instance, that doctors are grateful for, or at least tolerant of, corrections of their mistakes; and that pharmacists may under certain conditions safely modify doubtful prescriptions. As regards the latter point, it is clear from the communication of "Panel Chemist" in your issue of last week that it is not safe to alter any prescription if you intend to be paid for it under the Insurance Act; and my memory yields no record of any instance in which a doctor has been other than actively or tacitly resentful of any hint of a mistake on his part. Perhaps my experience has been exceptionally unfortunate, but I know several brother pharmacists who prefer to decline a prescription rather than suggest to the prescriber that it requires correction. Another point: I have no recollection of having ever seen a prescription in which a modification had been noted by a previous dispenser. This is no argument against the desirability of such notification, but it shows that, for some reason or other, pharmacists do not care to thrust themselves forward in this way.

Eau de Cologne,

in spite of the dictum of Mr. Denman, the Marlborough Street Magistrate, both can be and is considered by medical experts outside the category of ordinary perfumes. It owed its first success largely to its real or supposed medicinal properties; it is included as a medicine in several of our Dispensatories, and is, or used to be, prescribed as spiritus coloniensis, under which name a formula for it is given in Martindale's "Extra Pharmacopœia." Of what "ordinary perfume" besides eau de cologne can as much be said? Every pharmacist knows that it is still frequently asked for as an outward application in cases of headache, etc.

Faulty Storage of Lime-water

is perhaps as frequent a cause of low strength as faulty preparation. Lime-water is often stored in half-gallon bottles, and these are conveniently left on the top shelf. The temperature of the pharmacy is always highest near the ceiling, and where gas is employed for lighting the difference in temperature between the upper and lower layers of atmosphere is considerable. As lime is less soluble in warm than in cold water, a certain proportion of the hydrate is liable to be thrown out of solution, when it settles on the glass, and fails to redissolve. Also if a bottle is half full the surface of the liquid soon becomes coated with carbonate of lime, which also settles down. These sources of trouble are, I think, often to blame for weak lime-water.

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KINGZETT'S PRESERVED QUALITY.

INVALUABLE

1. As a wash for wounds, ulcers and sores.
2. For use in midwifery cases.
3. As a gargle in cases of sore throats.
4. As a mouth-wash.
5. For application in cases of bites from venomous insects.
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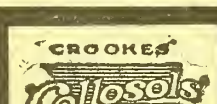

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Unique colloidal solutions, absolutely stable, non-toxic, non-irritant. Write for details.

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Editorial Articles.

New Zealand Overseas Trade.

In his annual Report on the trade of the Dominion of New Zealand for 1916, Mr. R. W. Dalton, Trade Commissioner, states that the total imports were valued at 26,339,000*l.*, compared with 21,729,000*l.* in the previous year, an increase of 4,610,000*l.*, or about 21 per cent. After commenting on the remarkable and satisfactory fact that, in face of all the difficulties which British manufacturers have had to meet, and in view of the many prohibitions of export which have been brought into force, the United Kingdom's share of the import trade of the Dominion increased from 49 per cent. in 1915 to 50.5 per cent. in 1916, Mr. Dalton goes on to remark that it is nevertheless true that even before the war the position of the home country was unsatisfactory, and in some trades since the war foreign firms have established themselves. It is impossible to prophesy with accuracy what the position of the United Kingdom in these trades may be after the war, but it is fairly safe to assume that when the war is over, for reasons both of improvements in producing methods at home, and of the quickened patriotic sentiment in the Dominion, British manufacturers will be in a more favourable position for competing. The advance of foreign trade at the expense of British trade is not yet serious in the total, but it should be remembered that it is fairly serious in some individual lines. Preparations may be made, and should be made *now*, to deal with the position when the war is over; the actual efforts in most trades may have to be deferred, but if in the meantime British firms would explain to customers the difficulties of delivery, they would find firms in the Dominion sympathetic, ready to abstain from trade with foreign countries as much as possible, and to revert to British sources of supply after the war. Many complaints have been made to the Commissioner as to the treatment customers have received from firms on this side since the war; but he finds when buyers in New Zealand understand the difficulties under which all business in the United Kingdom is carried on, imagined grievances largely disappear. Most people understand, in general, the straits to which British firms have been put; but they do not understand in detail that expert packers have gone, that many offices and shipping staffs are almost entirely new to their work, that in many cases actual producers are new and have to be trained, and so forth. It is on these points that firms should give more information.

The New Zealand drug-trade shared in the general prosperity of the country, which was, of course, solely due to the high prices of the produce. The following table shows total imports of drugs, chemicals, and druggists' wares, together with the shares of the countries named:

Countries	Competitive		Non-competitive		Totals	
	1915	1916	1915	1916	1915	1916
	£	£	£	£	£	£
U. Kingdom	326,121	482,467	10,408	4,228	336,529	486,695
Australia...	73,415	99,811	4,164	9,181	77,579	108,992
Canada ...	1,479	2,887	5,541	4,431	7,020	7,318
U. States...	76,717	113,501	20,871	12,678	97,588	126,179
Japan ...	2,980	6,994	7,889	8,785	10,869	15,779
Germany...	2,153	34,992	263	111,942	2,416	146,934
Others ...	37,157		111,324		148,481	
Totals ...	520,022	740,652	160,460	151,245	680,482	891,897

Included in the above were imports of medicinal preparations valued at 248,118*l.*, of which the United Kingdom's share was 149,500*l.*, that of Australia 35,000*l.*, and the United States 50,500*l.* American firms are well established in New Zealand, and a considerable trade is done in toilet-preparations, which trade has been carried on much more actively since the war. The bulk of the imported tooth-pastes, shaving-soaps, face-creams, and similar products is of American make. Practically all the heavy chemicals, like alum, ammonium chloride, borax, calcium chloride, sodium and potassium cyanide, disinfectants, sheep-dip, sodium salts, and acids (except sulphuric and nitric), are obtained solely from the United Kingdom, which is satisfactory. Sulphuric and nitric acids and compressed gases are obtained from Australia. Dyes valued at 34,700*l.* came from the United Kingdom, out of a total import of 41,657*l.* in 1916, against 18,247*l.* in 1915. This is very satisfactory, and shows that British dyes are meeting with success. Other imports of the Dominion are analysed in the Report in considerable detail, especially with regard to whether the various classes of goods are of a competitive or non-competitive character. This distinction has been made in order that an indication may be afforded of the amount of trade for which manufacturers in the United Kingdom can compete, as against that for which they are not in a position to compete owing to natural causes. Attention is also drawn to the methods of trading in the Dominion, with special reference to the treatment of agents and customers, the form of invoices, packing, and catalogues, while particulars are also given regarding the export and shipping trades, public works, legislation, and other miscellaneous matters.

Doing without Germany.

IV.—The United States.

Before the entry of the United States of America into the war which is to end Prussianism, that country had realised that it must no longer be dependent upon Germany for the supply of goods upon which the national existence depends. When Great Britain in 1914 denied the use of the seas to Germany, the United States suddenly realised that many of the American industries, such as textile-manufacture, would be dislocated unless steps were taken to make the dyes which formerly came from overseas. A census was taken of dyestuffs imported and made in the country, so as to be in possession of accurate statistics as to the quantities and varieties of dyes which were required. This was followed by an appropriation of $50,000 by Congress under which the Bureau of Chemistry will co-operate with manufacturers in the investigations needed in the aniline-colour industry. A separate research laboratory and an enormously increased production are likely to be the permanent result of this effort : great extensions of existing works are already reported, and the manufacture of the raw, intermediate, and finished products is being carried out on a very much larger scale than hitherto. Benzonaphthol, resorcin, phenolphthalein, salicylates, guaiacol carbonate, and saccharin may be mentioned as being produced in large quantities. We recently reported that the leading manufacturers of dyestuffs in the United States have formed a combination, with a capital of $25,000,000, which should place the industry in a solid position to meet Teuton competition when it again comes in force. The aniline-dye products which are being made include a good many medicinal chemicals, and this country has since 1914 been importing large quantities of fine chemicals from the United States. The number of products will increase with the growth of the aniline-dye industry. The scarcity of potassium compounds owing to the cessation of German supplies has stimulated the efforts to solve the old problem of extracting potash from silicate rocks on a commercial scale. One comparatively simple process has been found on a laboratory scale to extract from felspar both the potassium and aluminium salts on a quantitative basis, and there is every reason to believe that, translated into practice, the process can be worked profitably even at the pre-war prices of potash. In the meantime potassium chloride is being made in fairly large quantities on the Pacific Coast from kelp. Congress has also appropriated $20,000,000 for an investigation of the problem of making nitrogen products from the air, and a Government plant is being constructed at a cost of $4,000,000. The extraordinary activity of the chemical industry has accelerated the development of chemical engineering and the production of chemical appliances, as well as stimulated the efforts to produce trained technical chemists. Laboratory glassware and porcelain and scientific instruments are now made in sufficient quantity to satisfy the home demand. The result of the declaration of war on Germany gives every indication that the United States will endeavour to do without Germany even more completely. The Adamson law which has recently been enacted is founded on the British Acts dealing with enemy trading and enemy property. An outcome of this law is that licences will be granted to Americans to use the Salvarsan patents which hitherto have been in the hands of the agents of Meister, Lucius & Brüning. Salvarsan has been selling at extortionate prices in the United States because owing to the impossibility of obtaining licences its manufacture for sale could not be carried out there. The agents of the German patentees are now making great efforts to forestall American manufacturers of salvarsan, but the patriotism of American physicians is such that the national product is likely to supplant the drug made under German auspices. Last month the National Research Council established a Committee to deal with synthetic drugs, and systematic efforts are to be made to assist manufacturers by working out processes for making synthetic drugs on a large scale. The increase in the general trade of the United States with South America due to the exclusion of Germans from that market is likely to be permanent. The pirate empire will thus lose not only the immense trade which it had been doing with the United States, but also a large share of the profitable business which was carried on with South America.

Disclosing the Directors.

When the Registration of Business Names Act was passed on December 22, 1916, it was generally conceded that its weakest point was the non-inclusion of the limited liability companies within its scope of operation. One result was that before and immediately after the passing of the Act there was a somewhat feverish anxiety on the part of many firms of foreign or alien enemy origin to become "limited." The principals—nominal or real—disclosed in many cases a shrinking from the publication of their identity which was somewhat suspicious. The Companies Acts provided this necessary oblivion, but the passing of the Companies (Particulars as to Directors) Act, 1917, on August 2 has remedied the defect of last year's legislation. By the provisions of the new Act all companies which have been registered since November 22, 1916 (a month before the passing of the Registration of Business Names Act), must furnish to Somerset House—

(*a*) The present Christian name or names and surname of every director.
(*b*) Any former Christian name or names or surname of every director.
(*c*) The nationality of every director.
(*d*) The nationality of origin (if other than the present nationality) of every director.
(*e*) The usual residence of every director.
(*f*) The other business occupation (if any) of every director.

Futhermore, they must also, on and after November 3 next, set out, in all "trade catalogues, trade circulars, show-cards, and business letters," the names of the directors and any former name by which they were known, as well as the nationality of any who are not British, or the former nationality if a change has been effected at any time. Foreign companies which have established places of business within the United Kingdom since November 22 last will also have to conform to these regulations as well as any new company. Those companies that were in existence before November 22 must likewise furnish the names, and changes of names, of directors, but it will not be required of them to state these particulars on their business communications. All this is fairly stringent, and would have been certain of determined opposition in normal times, but a still more important and far-reaching innovation is the definition given to the word "director." For the purpose of this new law

> "the expression 'director' shall include any person who occupies the position of a director, *and any person in accordance with whose directions or instructions the directors of a company are accustomed to act.*"

This will bring within the scope of the Act many interested persons who, although never appearing personally in a particular business, have always pulled the strings. Though the real controllers of the concern, they have preferred to remain entirely behind the scenes, their work being carried on by nominees. That particular clause will make it practically impossible for an alien enemy to enter into business here without revealing his or her identity, and it will also make the path of the dummy director rather difficult. All the particulars indicated must be given to Somerset House in the annual summary which is required by the Companies Act to be filed with the Registrar of Companies, or within one month of the passing of the Act (August 2, 1917) in the case of companies formed since November 22, 1916, and within one month of the registration of the company in the case of new companies. The penalty is 5*l*. for every day during which the default continues. The drug, chemical, and associated industries have not been altogether free from alien enemy underground influence, and this Act is therefore a welcome piece of British legislation.

Utilising Pharmacists in the Army.

FOLLOWING up the appeal of Mr. Joseph W. England for the recognition of pharmacists in the United States army (*C. & D.*, August 25, p. 44), the "Druggists' Circular" elaborates the duties which a pharmacist could undertake as follows:

1. *In Field and Evacuation Hospitals:* Anæsthetisation, wound-washing, wound-dressing, wound-drainage, paraffin dressing, drug-dispensing, shock-treatment, and sanitation.
2. *In Base Hospitals:* Same as 1, but also urinary analysis, primary bacteriological tests, Röntgen-ray work, more drug-dispensing, and dietetic work.
3. *In General Hospitals:* Same as 2, but also chemical assay and bacteriological examinations of food, water, milk, body excretions, soil, etc., clinical tests, clinical surgical work (plaster Paris bandaging and other surgical dressings and appliances), toxicology, and more drug-dispensing.
4. *In Convalescent Homes:* Same as 3, but more drug-dispensing.
5. *In Army Pharmacological Laboratories:* The testing of drugs, biologics, disinfectants, surgical dressings, and pharmaceutical and chemical products of all kinds purchased for army use.

The additional training which chemists will require could be given by the Colleges of Pharmacy, or army physicians, surgeons, and sanitarians could hold special courses, as in the case of other officers in training. In the House of Representatives of the U.S. Congress, a Bill has been introduced by Mr. G. W. Edmonds, a graduate of the Philadelphia College of Pharmacy, with the title "A Bill to increase the efficiency of the Medical Department of the United States Army, to provide a Pharmaceutical Corps in that Department, and to improve the status and efficiency of the Pharmacists in the Army." The Bill is interesting as putting the pharmaceutical ideas in a concrete form. The duties of the Army Pharmaceutical Corps are thus defined in Section 3:

To procure by purchase or manufacture all supplies of medicines, drugs, chemicals, pharmaceutical apparatus, and hospital and surgical dressings necessary for the Medical Department of the Army; to determine the quality and purity of such supplies; to have charge of the medical-supply depôts of the Army and the storage and safeguarding of such supplies; to provide for the issuance and distribution of such supplies and the dispensing of medicines in the various hospitals, dispensaries, infirmaries, trains, and camps of the Army; to properly care for, regulate the dispensing, and to systematically account for all spirituous liquors and habit-forming drugs purchased for the department; to procure by purchase or manufacture such drugs, chemicals, reagents, tests, and biologic products as are used in the laboratories and the medical and surgical practice of the department for the purposes of diagnosis, prophylaxis, or treatment; to account for all moneys received from sales of medical supplies, in accordance with the provisions of the Army regulations or disposed of by order of competent authority; to inspect the department's stores and supplies of drugs, medicines, hospital dressings, reagents, tests, and biologic products and determine their deterioration and fitness for use; to co-operate with the other branches of the department in rendering first-aid and wound-dressing, and in the making of diagnostic and chemical tests; to establish and maintain a systematic course of study and training, including the advances made in medicine, pharmacy, and sciences allied thereto, to be pursued by the members of the Army Pharmaceutical Corps who are seeking promotion in the corps.

Another section deals with the qualifications and duties of the pharmacist-director, who is to have the rank of major and be the chief of the Pharmaceutical Corps. There are five deputy pharmacist-directors with the rank of captain, and such number of pharmacists with the rank of lieutenant and of pharmaceutical apprentices as may be needed for the service. The pay is to be on the same scale as in the Medical Corps. Provision is made for the transfer to the Corps of pharmacists who are already serving with the War Department.

Spirit Deliveries.

A NOTICE has been issued by the Board of Customs and Excise as to restriction of delivery of spirits and wine for home consumption. This states that any person holding an authority for the current half-year and desiring to obtain delivery of spirits or wine during the six months commencing October 1, 1917, must make application to the Advisory Committee for a renewal of the authority now held. The application must be made in writing, no special form being required or supplied; it should be stated therein that an authority has been held for the current half-year, and the application number, as given on the right-hand upper corner of the authority so held, should be quoted. The application should be addressed to the Secretary, The Advisory Committee (Customs and Excise), 110 Cannon Street, London, E.C. 4, and should be sent in early in September. Authorities for delivery during the half-year which commenced on April 1 last will lapse on September 30, and deliveries thereon will not be allowed after that date. Any balance remaining uncleared may, however, be transferred to the new authority granted for the ensuing half-year, and such transfer will be made by any officer of Customs and Excise on request, and on production of the old and new authorities; the lapsed authority will be retained by the officer for transmission to the Advisory Committee.

Factory First-aid Appliances.

THE HOME SECRETARY, under powers conferred upon him by the Police, Factories, etc. (Miscellaneous Provisions), Act, 1916, has made an Order dealing with the welfare of workers employed in factories where bichromates are used. The formulæ in the Official Cautionary Notice (*C. & D.*, August 18, p. 44) have already been of use to chemists in the neighbourhood of factories. The new Order requires this Notice to be exhibited in the factory. The following section, which it is proposed shall come into force on October 1, deals with the provision of first-aid boxes or cupboards:

The occupier shall provide in readily accessible positions a sufficient number of "first-aid" boxes or cupboards.

Each box or cupboard shall be marked plainly with a white cross on a red ground, and shall contain, besides any other medical appliances or requisites, a supply of:

(i) Collodion and brushes.
(ii) Impermeable waterproof plaster.
(iii) Ointment, lint, bandages, and scissors.
(iv) A 2-per-cent. alcoholic solution of iodine.

Nothing except appliances or requisites for first-aid shall be kept in a "first-aid" box or cupboard.

Each "first-aid" box or cupboard shall be kept stocked and in good order, and shall be placed under the charge of a responsible person, who shall always be readily available.

A notice or notices shall be affixed in every workroom stating the name of the person in charge of the box or cupboard provided in respect of that room.

The waterproof plaster is, the Home Office state, a kind supplied by Leslies, Ltd., and Cuxson, Gerrard & Co., Ltd. The specifications of the lint and bandages are at present the subject of negotiations with manufacturers, and will probably be on the lines of the standards employed in the Insurance Drug Tariff.

EMBARGO ON AMERICAN SULPHUR TO CANADA.—An embargo has been placed on exports of sulphur from the United States to Canada in order that supplies which are vital to the war needs of the United States may not be unduly depleted.

GERMAN SHORTAGE.—One word as to the shortage of raw materials—a shortage the Germans say as little as possible about in the newspapers. In all these economic matters, as well as in military affairs, they will "bluff" as hard as they can to the very last moment. The confiscation of all zinc bath-tubs is threatened; the organ-pipes and bells of churches disappeared long ago. The leather straps attached to the windows of railway carriages have been removed. Oils of all sorts are practically unobtainable. I heard of a Berlin lady only a few weeks ago who gave 200m. (10*l.*) for 10 lb. of ordinary salad oil, and thought herself lucky to get it. Paraffin may not be sold in the shops between April 1 and September 30. Methylated spirits can be obtained only by people in special trades who have a permit. Ammonia, boracic acid, vaseline, and glycerin have disappeared from the shops, and one has almost forgotten that such a thing as benzine ever existed. Turpentine came to an end long ago.—*Mr. F. Sefton Delmer in the "Times."*

Practical Notes and Formulas.

Ant Deterrents.

THE "Lancet," replying to a correspondent who asked for suggestions for keeping ants out of the house, states that the following are popular remedies: Powdered cloves with borax (oil of cloves thinned with methylated spirit could be worked up with the borax), or camphor 1 oz. with borax 1 lb. Turpentine is a well-known and efficacious remedy, but not pleasant for food-cupboards.

New Mouth-wash.

MAJOR F. M. WELLS, of the Canadian Army Dental Corps, communicates to the "British Medical Journal" (II., 1917, p. 6) the result of work he has been doing on antiseptics for oral use. The formulæ he gives are as follows:

Mouth-wash.

Quinine hydrochloride ...	5 grams
Sodium desoxycholate ...	40 grams
Glycerin	250 c.c.
Water to	1,000 c.c.

Mouth-wash Tablets.

Sodium desoxycholate ...	gr. j.
Quinine ethyl carbonate ...	gr. $\frac{1}{8}$
Peppermint oil	♏ $\frac{1}{20}$
Glycyrrhizin ammoniate ...	gr. ij.

Also with acriflavine 1 in 1,000.

Sodium desoxycholate has a powerful solvent action on pneumococci, and is ten times more active than sodium cholate or commercial sodium taurocholate. The combination of sodium desoxycholate and quinine has a much greater bactericidal effect than when these two substances are employed separately.

Pepsin in Place of Rennet.

As a substitute for rennet, which is now scarce, pepsin is being employed in cheese-making. D. W. Steuart, in the "Board of Agriculture Journal," reports that it is impossible to detect any difference between cheese made with pepsin and that made with rennet. It is stated that 1 oz. of pepsin (1 : 3,000) is equal to 12 oz. of standard rennet extract. The pepsin solution is made as follows:

Sodium chloride	2 lb.
Boric acid	3 oz.
Water	1 gal.

Dissolve by boiling, then cool to 104° F., and add

Pepsin	13½ oz.

Surgical Glue

is used for fixing extension to fractured limbs, and was introduced by Major M. Sinclair for that purpose. The following formulæ are given in the "British Medical Journal" (II., 1917, p. 60):

I.

Ordinary glue ...	50 parts
Water	50 ,,
Glycerin	2 ,,
Calcium chloride ...	2 ,,
Thymol	1 part

II.

Isinglass	50 parts
Glue	50 ,,
Water	50 ,,
Calcium chloride ...	2 ,,
Tannic acid ...	12 ,,
Thymol	1 part
Glycerin	2 parts

The glue is put up in 1-lb. tins and sterilised at 100°. When required the contents are melted in a water-bath and set aside a few minutes to cool. The adhesive is applied with the palm of the hand or a brush. The skin is washed with soap and sodium carbonate solution (4 dr. to the pint) in order to remove fat, and when dry the adhesive is applied without shaving the part. The area is covered evenly, and the ordinary four-ply gauze as it comes out of the packet applied, having roughly measured the requirements and gathered it in at the level of the wrist or ankle. An alternative method is to put on a length of "elastic cotton-net bandage" (S. Maw, Son & Sons) from knee to ankle, to glue it on the outside, and then to apply the gauze as above and bandage carefully with a thin bandage. The gauze, being spread out fan-shaped, adapts itself to the conformity of the limb, and is kept in apposition with the skin by a loose-woven bandage. The extension can be made almost immediately.

Colloidal Sulphur.

THE following method of manufacturing colloidal sulphur (1 in 1,000) is given by Major John D. Comrie, M.D ("Lancet," I., 1917, p. 991), as having been supplied by Mr. George Lunan, Queensferry Street, Edinburgh:

Hydrochloric acid (10 per cent. HCl), 22 c.c.; sodium sulphide ($Na_2S,9H_2O$), 5 grams; sodium sulphite ($Na_2SO_3,7H_2O$), 2.6 grams; white of two eggs; sterilised water to 1 litre. Dissolve the sodium sulphide and sulphite each separately in 250 c.c. of the water, mix together; add the white of egg and thoroughly mix. To this solution add the hydrochloric acid, diluted with 250 c.c. of the water. The solution is then to be thoroughly mixed, warmed slightly, and sufficient sterile water added to make the volume 1 litre. The solution, after being carefully dialysed to remove crystalloids, is then ready for use. Theoretically, the product should contain 1 in 1,000 of colloidal sulphur. The chemical action is explained as follows:

$$2Na_2S+4HCl=2H_2S+4NaCl, \text{ and}$$
$$Na_2SO_3+2H_2S+2HCl=2NaCl+3S+3H_2O.$$

Thus the sodium sulphite is reduced by the hydrogen sulphide produced from the sodium sulphide and hydrochloric acid. The presence of the albumin appears to prevent the aggregation of the sulphur into masses. In use the dose of 1 c.c. (about 17 minims) is rendered isotonic by the addition of 0.2 c.c. (about 3 minims) of 5.5-per-cent. saline solution mixed immediately before injecting.

The Sphagnum Moss of Commerce.

THE inestimable value of sphagnum moss as a dressing in surgery has caused it to become much used in naval and military hospitals. It is not only a war-time dressing, however, as the indications are that sphagnum, for many reasons—notably its plentifulness and consequent cheapness—will, after the war, continue to be an article of commerce. For the purpose of prospective trading there are many points of value which are not generally known. The best time for gathering the moss is from June to September, as frost, snow, and rain make work on the moors and hillsides practically impossible in winter. The slightest frost causes the plant to shrivel up, and makes harvesting a laborious task. The next point of value is the surveying of the ground, for, although sphagnum is plentiful, it is necessary for business to map out beds large and clean enough so that the gatherers may collect rapidly and in quantity. One may readily understand the value of beds which can be grubbed (the term is used in moss-gathering) in handfuls, as compared with the labour of picking it from among heather. The third point to be noted is that the ground should be readily accessible to transport, as the moss in its wet state is too heavy to be carried far. White wooden pins should be driven into the beds in advance of the grubbing operations, so that no time may be lost in searching. Then one half of the workers should grubb and place the moss in heaps at the side of the beds, the others squeezing it as dry as possible and filling it into sacks. No other implement is required for grubbing than a good pair of hands. The best method yet discovered of drying the moss is to spread it out like hay on a closely cropped turf, surrounded by small-mesh wire netting. Toss and tease the moss occasionally with a wooden rake until quite dry. This method is, however, only practicable in fine weather, as a shower of rain will undo all the labour. For practical purposes in all kinds of weather the best method is that of the trays. These consist of wire-netting screens made so that they can be piled on top of each other leaving an air-space between. The sphagnum is spread on these trays, which are then piled up inside a tent to a height of about eight feet. Whenever the weather permits, the sides of the tent are rolled up, thus allowing the free passage of air, and the moss dries in a couple of days. This method is an advance on the more tedious method of pressing between rollers The process of cleaning should not be carried out too minutely. It is only necessary to remove hard, brittle matter, as the whole of the moss will eventually be antiseptically treated. Soft vegetable fibre, such as stray blades of grass, heather, etc., do not in any way impair the surgical efficacy of the dressing. The point at which drying should cease can only be decided upon by experience, but it is not advisable to overdo it, as if too dry the moss becomes brittle and powdery. As time goes on surgical-manufacturing firms will doubtless invent improved mechanical means of drying and cleaning, but the foregoing lines have been written with a view to directing attention to some points which should greatly aid in making the manufacture of sphagnum-moss dressings a profitable branch of surgical manufacture.

Personalities.

MR. R. H. EVANS, chemist and druggist, has been appointed to a vacancy on the Radnorshire Insurance Committee in the place of Mr. W. W. Johnson, resigned.

PRIZES were awarded to the following Pontypridd pharmacists at competitions organised by the local Allotment Societies: Messrs. D. Arnott, Ph.C., O. Davies, W. O. Davies, and T. E. Jones.

MR. GEORGE FOSTER CLARKE, Mayor of Maidstone, and chairman of the directors of Foster Clarke, Ltd., has been appointed Chairman of the Hop Control Board, which is to take over the whole of the English hop-crop this year.

MR. J. BEETHAM WILSON, chemist, Dorking, whose work as a grower of belladonna is well known to readers of the *C. & D.*, figured in the "Daily Graphic" this week. He was depicted in the act of preparing atropine from the belladonna he has grown.

MR. THOMAS POSTLETHWAITE, Ph.C., Portsmouth, a Category A Volunteer in the Volunteer Regiment, made the top score for his battalion in the recent Mackworth-Praed rifle competition. Last year he did a regular turn on guard in the garrison, in addition to his duties as President of the Portsmouth Pharmacists' Association and Chairman of the Pharmaceutical Committee on Insurance.

MR. FRANCIS NEWBERY, managing director of Francis Newbery & Sons, Ltd., Charterhouse Square, London, E.C., recently called a meeting of representatives of business houses in the Square to consider the question of organising resources for protection against air-raids. The meeting was held in the Charterhouse, and it was arranged that tickets should be given to those who desire to avail themselves of the refuge afforded by the cellars at the Charterhouse. First-aid and fire-brigade sections were also organised. Mr. Newbery's thoughtfulness is much appreciated locally, as it is felt that the dangers of enemy air-raids have been neutralised almost completely.

THE following persons, among others, have received appointments to the Order of the British Empire, which has been instituted as a means of recognising war services: *Knights Grand Cross* (*G.B.E.*): Lord Emmott, Director of the War Trade Department; Lord Moulton, F.R.S., Director-General of Explosives Supplies in the Ministry of Munitions; Mr. Arthur Stanley, Chairman of the British Red Cross Society. *Knights Commanders* (*K.B.E.*): Captain Charles Bathurst, F.C.S.; Professor Herbert S. Jackson, F.R.S.; Mr. Richard Threlfall, F.R.S. *Commanders* (*C.B.E.*): Dr. Garrett Anderson; Professor H. Brereton Baker, F.R.S., Professor of Chemistry, Imperial College of Science and Technology; Professor W. H. Bragg, F.R.S.; Mr. William Duddell, F.R.S.; Professor F. W. Keeble, F.R.S.; Professor Jocelyn Field Thorpe, F.R.S. *Officers* (*O.B.E.*): Professor J. Cunningham McLennan, Professor of Physics, Toronto University.

Wills.

MR. MONTAGUE FOLKARD, chemist and druggist, 9 Heworth Green, and 13 and 14 Pavement, York, who died on February 17, left estate of the gross value of 8,185*l.* 11*s.* 4*d.*

MR. ANTHONY SMITH BUCK, chemist and druggist, 179 Bedford Street, Liverpool, has left estate valued at 5,939*l.* 0*s.* 10*d.*, with net personalty 5,768*l.* 0*s.* 7*d.*

MR. THOMAS BATT, Ph.C., 98 Sandymount Road, Sandymount, Dublin, who died on April 29, left personal estate in the United Kingdom valued at 3,683*l.* 0*s.* 1*d.*, of which 308*l.* 12*s.* 9*d.* is in England. The testator left his estate upon trusts for his children.

MR. CHARLES HENRY WRIGHT, 12 St. Peter's Road, Phibsborough, Dublin, chemist, late Registrar of the Apothecaries' Hall of Ireland, who died on March 19, left personal estate in the United Kingdom valued at 1,001*l.* 11*s.* 10*d.*

MR. THOMAS SHEPHEARD, chemist, Kingsley, Bournemouth West, of Davies & Shepheard, Chester, who died on February 1, has left property of the value of 22,455*l.* 6*s.* 9*d.* gross and 22,337*l.* 14*s.* 1*d.* net. The testator gives 100*l.* to the Chester General Infirmary, 1,100*l.* and the household effects to his wife, 200*l.* each to his daughters on their marriage, and the residue in trust for Mrs. Shepheard for life and then in various shares to his children.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

J. W. BUCKLAND, SON & CO., LTD. (P.C.).—Capital 20,000*l.* Objects: To carry on business, among other things, in weed-killer and sheep-dips. R.O., 33 Hop Exchange, London, S.E.

PENNSYLVANIA AND DELAWARE OIL CO., LTD. (P.C.).—Capital 1,000*l.* Dealers in and manufacturers, refiners, and distillers of oils, essences and chemicals, etc. R.O., 7 Union Court, Old Broad Street, London, E.C. 2.

ANTISEPTICS, LTD. (P.C.).—Capital 5,000*l.* Manufacturers of and dealers in patent and other medicines, drugs, chemicals, toilet-requisites, ointments, etc. Solicitors: Richardson, Sowerby, Holden & Co., 5 John Street, Bedford Row, London, W.C.

HARWORTH MAIN COLLIERY CO., LTD. (P.C.).—Capital 100*l.* Power is taken to carry on business, among other things, as manufacturers of and dealers in chemicals and dyes. Solicitors: Johnson, Weatherall & Sturt, 7 King's Bench Walk, Temple, London, E.C. 4.

ARTAMUS SYNDICATE, LTD. (P.C.).—Capital 1,000*l.* Objects: To carry on the business of planters of rubber, coffee, tea, coconuts, sugar, tobacco, cinchona, camphor, aloes, vanilla, cocoa, pepper, etc. Solicitors: Mayo, Elder & Co., 10 Drapers Gardens, London, E.C.

CHEMICAL ENGINEERING CORPORATION, LTD. (P.C.).—Capital 5,000*l.* Objects: To carry on business as contractors, chemical, mechanical, civil, electrical, mining, constructional, and general engineers, etc. Solicitors: Cooper & Co., 54 Gresham Street, London, E.C.

SOLAR REFINING CO., LTD. (P.C.).—Capital 10,000*l.* Power is taken to carry on business, among other things, as importers and exporters of oil, grease, wax, lanoline, chemicals, disinfectants, etc. Solicitors: Harris, Cheetham & Cohen, 25 Finsbury Square, London, E.C.

IVENSI, KELLETT & CHILDS, LTD. (P.C.).—Capital 1,000*l.* Objects: To carry on business as wholesale and retail chemists, druggists, dealers in toilet-requisites, mineral-water manufacturers, wholesale and retail grocers, etc. R.O., 3 The Broadway, Brighton Road, Worthing.

OXFORDSHIRE IRONSTONE CO., LTD. (P.C.).—Capital 100,000*l.* Objects: Among other things power is taken to carry on business as manufacturers of chemicals, dyes, basic slag, and artificial manures. Solicitors: Pinsent & Co., Birmingham, and Birch, Cullimore & Co., Chester.

WOOD SOMERS, LTD. (P.C.).—Capital 5,000*l.* Objects: To carry on business as manufacturers, producers, drysalters, merchants, exporters, importers, brokers, dealers in chemicals, oils, essential oils, drugs, dyes, colours, natural products, etc. R.O., 3 Crosschurch Lane, London, E.C.

ESSONA PERFUMERY CO., LTD. (P.C.).—Capital 1,000*l.* Objects: To manufacture and deal in perfumery, toilet-articles, drugs, chemicals, etc. The first directors are A. F. Money Hicks (managing director for life) and Mrs. G. Hicks. R.O., Essona Works, Haydon's Bridge, Wimbledon, London, S.W. 19.

CAPRON NEUTRAL SULPHATE OF AMMONIA SYNDICATE, LTD. (P.C.).—Capital 1,000*l.* Objects: To take over the "Capron" process for the manufacture of sulphate of ammonia, and to carry on the business of manufacturers and importers of, dealers in, and agents for chemicals, manures, dyes, colours, oils, coal-tar, ammoniacal liquor, and residual products, etc. R.O., Windsor House, Kingsway, London, W.C. 2.

MCMASTER, HODGSON & CO., LTD. (P.C.).—Capital 15,000*l.* Objects: To take over the business of a wholesale and retail druggist and oil-crusher carried on by R. Middleton as McMaster, Hodgson & Co. at 121-122 Capel Street, and at Anglesea Row and Henrietta Lane, all in Dublin, and at Ashtown Mills, co. Dublin. The first directors are J. R. Middleton, W. J. G. Webb, H. H. Quingley, and J. Wm. Middleton. R.O., 121 and 122 Capel Street, Dublin.

COMPANIES WHICH MAY BE WOUND UP.—Three months from August 24, the names of the undermentioned companies will, unless cause is shown to the contrary, be struck off the Register, and the companies will be dissolved: Carbonated Waters, Ltd.; Cymric Drug Co., Ltd.; Dartford Chemical Works, Ltd.; Minerals, Ltd.; Paragon Photo Materials (Wm. Zeigler), Ltd.; Pinex Co., Ltd.; Reversible Bifocal, Ltd.; Seamless Rubber Co., Ltd.; and Volatile Solvents Recovery Co., Ltd.

Association Affairs.

Birmingham.—A meeting for the discussion of pharmaceutical topics was held at the Grand Hotel, Colmore Row, on August 22, when Mr. Neathercoat (Vice-President of the Pharmaceutical Council) and Messrs. Campkin and Deakin gave short addresses on the position of the craft, after which questions were asked on various points and replied to by Mr. Neathercoat; while Mr. Mallinson, who was also present, answered interrogatories regarding Insurance matters. Votes of thanks were accorded to the official visitors.

West Bromwich.—The annual meeting of the West Bromwich Pharmaceutical Association was held at Mr. Hampton's residence, 13 Park Road, West Smethwick, on August 21, Mr. Beattie (President) in the chair. Dr. Selwyn Edwards, B.M., B.Ch., delivered a lecture entitled *The Mystery of Death.* Dr. Edwards began by stating that the sharply dividing line between living and dead is fast disappearing. The subject of death is inextricably bound up with the mystery of life. If we could explain the latter, we might be better able to explain the former. There is, he said, no evidence of the continuity of the personality beyond what spiritualists, seers, and mystics can say. Dr. Edwards, continuing, said that although we could often point to the fraction of an hour when a person died, yet is the body dead? We must distinguish between the quittal of the body by the owner and death of bodily tissues. The tissues live much longer than the moment of so-called death; the tissues also die at different intervals. The more highly evolved die first, the lowly evolved last. The real death is the death of the tissues themselves. The sure sign of death is putrefaction. To prevent premature burial, he strongly urged a more complete examination of the supposed dead body. The ten signs of death are:

(1) Absence of intelligence (not a real evidence).
(2) Complete insensibility.
(3) Senses of hearing and smell gone.
(4) Certain signs of the eye.
(5) *Rigor mortis.*
(6) Cessation of respiration.
(7) Coagulation of blood.
(8) Temperature of body.
(9) The skin of dead person not blistering.
(10) The *odor mortis.*

The lecturer then put the causes of death under three heads: (1) Old age; (2) by diseases and accidents; (3) small number of cases through purely mental causes; no change physically. He then referred to the thickening of the arteries as showing the real age of a person, and dealt at some length with the chemistry of matter and the vibrations therein to which our senses are conscious; when a person has no sense of any form of vibration he is *quâ* dead. Concluding, the lecturer gave it as his opinion that, although there is no proof of continuity of the *ego* after death, he thoroughly believed in the continuation of one's personality after the death of the body. Mr. Hampton proposed a vote of thanks to Dr. Edwards, which was seconded by Mr. Withers and carried unanimously. At the close of the meeting Mr. Barnes brought forth matters of pharmaceutical interest, and also intimated his resignation of secretaryship of the Association, owing to his opening a new business at Rugby.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Portsmouth.—The appeal of five panel practitioners against the decision of the Insurance Committee to make deductions from their remuneration on the ground of excessive prescribing during 1914 has now been determined. Two of the Insurance Commissioners, Messrs. J. Smith Whitaker and D. J. Shackleton, constituted the Court, and the hearing took place at the Town Hall, Portsmouth, on October 13 last. The doctors argued that the Panel Committee, after a thorough investigation, was satisfied with their explanation, and unanimously decided that there was neither extravagant nor expensive prescribing, that the medicines and appliances given in all cases were considered necessary, and that the so-called over-prescribing was due to the severe epidemic of influenza during the first four months of the year. The evidence now given showed that the matter had been investigated by a Scrutineer on behalf of the Panel and Pharmaceutical Committees, whose report led to a conference between these bodies, which proved abortive, and the Panel Committee submitted the whole matter to the Insurance Committee, which came to the conclusion that there had been unnecessary expenditure on drugs and appliances, and assessed the deduction to be made from moneys due to the prescribers at "50 per cent. of the amount overspent beyond the amount allowed in the Drug Fund per patient on the practitioner's panel list." After hearing the evidence of all the parties concerned, the Commissioners decided that the appellants had caused an excessive cost to fall on the Drug Fund, but, as to the amount of the deductions, considered that the Insurance Committee had been placed at a disadvantage by the default of the Panel Committee, and reduced the amount to be deducted from the practitioners' accounts from an aggregate of 202*l.* 18*s.* 4*d.* to 126*l.*, in sums varying from 6*l.* to 50*l.* for each doctor. This amount has accordingly been paid to the panel chemists in proportion to their accounts for 1914.

Sheffield.—The Pharmaceutical Committee met at the Insurance offices on August 22, Mr. A. H. Culverhouse presiding, when the question of returning to the doctor, for fuller instructions, prescriptions for lin. alb. was referred to a Sub-Committee. A complaint of the prescribing of pot. brom. in bulk with only verbal directions was held over. Circular P.S. 42 was considered, and it was decided to support the inquiries section scheme, but thought advisable that all answers should be transmitted through the Pharmaceutical Secretary. The report of the Central Checking Bureau was considered unsatisfactory, and it was resolved to ask the Bureau to arrange for a complete check of the April prescriptions at the price of 1.1 per cent. of the accounts, as arranged.

Notes.

SOLDIERS AND SAILORS.—The English and Welsh Insurance Commissioners have given notice in the "London Gazette" that they propose to make regulations with respect to the provision of medical and sanatorium benefits for invalided and discharged seamen and soldiers. The draft regulations have already been published.

COMPLAINT ABOUT A DOCTOR.—An inquiry under Part VI. of the National Health Insurance (Medical Benefit) Regulations (England), 1913, will be held in Committee Room "B," County Offices, Preston, on September 4, to investigate a representation which has been made by the Lancashire Insurance Committee that the continuance of Dr. William Hamilton, 95 Wallgate, Wigan, upon the panel is prejudicial to the efficiency of the medical service of the insured.

ACETANILIDE has been found to be a good preservative for acacia mucilage.

THE KELP-INDUSTRY.—The Chief Secretary for Ireland, in reply to a question in the House of Commons regarding the prices paid for kelp to producers in Ireland, said that the Congested Districts Board ascertained that it was beyond their power to improve prices for kelp-makers, so long as only about half-a-dozen firms bought kelp. Recently, however, kelp has been largely bought, especially in Galway and Donegal, for use in making artificial fertilisers. The prospects of the industry are now much improved, and the prices for kelp are higher.

ARQUEBUSADE.—A correspondent of "The Lancet" being puzzled by the word arquebusade, which occurred in the communication of a French medical man, the matter has been explained to him as follows: "Bouillet says that 'under the name of *eau d'arquebusade* is known a vulnerary water anciently employed for external use in wounds produced by firearms. The *eau d'arquebusade de Theden*, which was for a long time in favour, was a liquor prepared by mixing together 150 grams of concentrated sulphuric acid and 720 grams of alcohol of 80 per cent., and adding to the mixture a solution of 360 grams of sugar in 150 grams of water and 720 grams of filtered sorrel-juice. In Germany this water was prepared by mixing together 1 part of sulphuric acid, 6 of vinegar, the same of alcohol, and 2 of skimmed and clarified honey.' It was also known under the names of *aqua scopetaria* and *aqua catapultum*, besides *aqua vulneraria spirituosa*, which in the German Pharmacopœia of the first edition was then prepared from numerous aromatic plants as follows: 1 part each of peppermint, rosemary, rue, salvia-leaves, herba absinthii, lavender-flowers, 18 of dilute alcohol, and 50 of water, to be macerated two days and 36 parts distilled."

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, August 30, 5.30 p.m.

WHILE business generally does not show much outward sign of activity, nevertheless a good deal of quiet buying has taken place since the public auction last week, and a fair number of parcels have been cleared from the brokers' catalogues. Only a few articles show a decline in price, the bulk of the alterations being upwards. Cream of tartar is still very scarce and again dearer; citric and tartaric acids are on the easier side, possibly owing to the absence of summer weather. Liquorice extract shows a substantial increase. Eucalyptus, star-anise, and clove oils are dearer. Juniper-berries are lower. Fine chemicals are all quiet, and mostly unchanged; metol, benzoates, and sulphonal are rather lower.

Higher	Firmer	Easier	Lower
Anise oil, star Cinnamon Clove oil Cream of tartar Eucalyptus oil Gentian Liquorice ext. Nutmegs Pimento Senega	Camphor, Jap. (¼ oz.) Camphor oil Cassia oil Tannic acid	Citric acid Cloves Tartaric acid	Benzoic acid Juniper-berries Metol Shellac Sodium benzoate Sulphonal

Cablegram.

NEW YORK, August 30.—Business is quiet. Mexican sarsaparilla has advanced to 28c. per lb., jalap to 17c., and senega to 70c. Copaiba balsam is steady at 90c., and cascara sagrada is firm at 12½c. per lb.

ACETANILIDE is offered at from 2*s.* 9*d.* to 2*s.* 10*d.* per lb. in barrels.

ANISE OIL (STAR) is in better demand, and from 3*s.* 8*d.* to 3*s.* 10*d.* has been paid on the spot, 3*s.* 10½*d.* being asked at the close; the c.i.f. price is wired at 3*s.* 8*d.*

ANTIMONY.—During the last few weeks business in Chinese crude has been dull and of no special importance in contrast to the fairly brisk demand experienced in July, and market quotations have varied a good deal. Home refiners who take a certain interest in this article usually circulate low quotations at which business is hardly possible, although there are a few merchants who might accept about 36*l.* per ton c.i.f. for shipment not guaranteed, however, whereas others ask as much as 40*l.* for fairly near shipment. It is apparently a matter of freightage, which is very difficult at present. At the same time, advices from China are firm, there being no important accumulation of supplies there, while the position is apparently largely controlled by Japanese enterprise, whose refining operations in Japan have been considerably increased during the last few years. Spot (London) parcels of crude are very scarce, and for the moment rather nominal, sellers' ideas being about 45*l.*, although business has just been done at 40*l.* According to an official return, the total exports from China in 1916 were 2,088 tons of regulus and crude, the latter running about 70 to 74 per cent., and, in addition, 11,572 tons of antimony ores were exported. The great boom during 1915 did much to stimulate the output, while an enormous demand sprang up for munitions. China's resources are great, and Chinese interests succeeded in that year in opening up important connections in America, where a regular system of trading was established, but speculation there and in China was overdone, and this resulted in a bad collapse last year in China, while production in other parts of the world assumed considerable importance, especially in Bolivia. Not a few of the companies formed in China came to grief through over-speculation and outside competition. The position in China, however, is now more healthy. The development of Spanish resources has also aroused some interest in this country, good quantities having been received from Spain.

ANTS' EGGS are offered at 2*s.* 8*d.* per lb.

ASPIRIN remains unchanged at from 14*s.* 6*d.* to 15*s.* per lb. for B.P. qualities.

ATROPINE is very firm and scarce at from 118*s.* to 120*s.* per oz. for B.P. sulphate.

BALSAM PERU.—There are reports of increasing difficulty in obtaining stocks in the country of origin; quotations are steady at from 18*s.* to 18*s.* 6*d.* on the spot in limited quantity.

BENZOATES.—There are sellers of benzoic acid at from 18*s.* 6*d.* to 19*s.* 6*d.* per lb., and benzoate of soda at from 21*s.* to 22*s.* per lb. for prompt delivery.

CAMPHOR.—Refined Japanese ¼-oz. tablets are very scarce; business has been done at 4*s.*, but 4*s.* 1*d.* is now asked. Sellers of Japanese slabs ask 3*s.* 6*d.* spot, and sales of ¼-oz. to arrive have been made at 3*s.* 8½*d.* c.i.f.

CAMPHOR OIL (WHITE) continues to improve in value, 90*s.* to 92*s.* 6*d.* being now quoted.

CASSIA OIL keeps selling and advancing with each sale, up to 5*s.* 3*d.* having been paid.

CELERY-SEED.—French sells on the spot at from 127*s.* 6*d.* to 130*s.* per cwt.

CHILLIES.—At auction 100 bags good red Japanese were bought in at 70*s.*; privately Japanese are quoted at from 70*s.* to 75*s.*, and Zanzibar at from 85*s.* to 90*s.*

CINNAMON is dearer, Ceylon firsts being held at 2*s.*, seconds 1*s.* 11*d.*, thirds 1*s.* 10*d.*, fourths 1*s.* 9*d.*, and chips at 9½*d.*

CITRIC ACID has further declined to 3*s.* 2½*d.* to 3*s.* 3*d.* per lb. on the spot.

CLOVE OIL.—There is nothing to be had below 10*s.*; makers are very "full up" with orders; 90-92 per cent. oil is quoted at 10*s.* 3*d.* to 10*s.* 6*d.*

CLOVES continue quiet, with spot sellers of fair Zanzibar at 1*s.* 2½*d.*

CREAM OF TARTAR.—The scarcity is more acute, with limited quantities offering at from 275*s.* to 280*s.* per cwt.

EUCALYPTUS OIL.—A good business has lately been done at advancing prices, and a steady appreciation in values is looked for. B.P. oil (65 to 70 per cent.) is now quoted at 2*s.* 8*d.*, 70 to 75 per cent. at 2*s.* 9*d.*, and Globulus 2*s.* 9*d.* per lb. Some orders for B.P. oil have also been placed at 2*s.* 3*d.* c.i.f. As might have been expected, it is very difficult to effect shipment from Australia, tonnage being required largely for foodstuffs, and even when shipments are accepted by the steamship owners the oil is now carried "on deck" only, owing to its penetrating odour, this of course increasing the already greatly advancing charges for freight and insurance.

GAMBOGE.—The Customs having released recent consignments, it is probable that between sixty and seventy cases will be offered by two brokers next week.

GENTIAN is dearer, and the stocks seem very small, whole quoted at 87*s.* 6*d.* and the cut 100*s.* on the spot.

GINGER.—Quiet, at auction 300 bags washed rough Cochin being bought in at 70*s.*, 134 baskets and 44 bales brown Calicut rough at 65*s.*, and 152 bags limed Japanese at 45*s.*

HOPS.—The three lots of hops (25 packages) sold in prize last week were all sold at 60*s.* per cwt., not at from 40*s.* to 60*s.* as reported.

INSECT-FLOWERS.—Japanese on the spot offer at from 160*s.* to 165*s.* as to quality.

IPECACUANHA.—The stocks in the Crutched Friars warehouse on August 27 amounted to 440 Matto Grosso, 20 Minas, 56 East Indian, and 26 Cartagena, making a total of 542 packages. We note the arrival of 49 bales ipecacuanha in Liverpool. There are still sellers of fair Matto Grosso at 10*s.* and Cartagena at 9*s.* 9*d.* on the spot.

JUNIPER-BERRIES.—Anticipations of the new crop have caused an easier tendency on the spot; 32*s.* is now being asked on the spot.

LIQUORICE-JUICE.—The approach of the principal season has caused many buyers to come on the market with inquiries, and even during the past week the position has altered considerably; really first-class juice cannot be

bought under 280*s.*, and as these relatively cheap parcels are cleared it cannot pay importers to replace stocks and sell them much below 300*s.*

MENTHOL.—Holders of Kobayashi-Suzuki now ask 13*s.* 6*d.* to 13*s.* 9*d.* on the spot, and for September-November shipment sales of Kobayashi-Suzuki combined with *oil* have been made at 15*s.* 9*d.* per lb. c.i.f.

METOL is offered at the lower price of 56*s.* per lb.

MINT OIL.—The value of Japanese dementholised (Kobayashi-Suzuki) is 3*s.* 6*d.* on the spot and 3*s.* 9*d.* c.i.f.

NUTMEGS at auction sold at an advance of 1*d.* to 1½*d.* per lb., 460 packages mostly limed and ungarbled Java being disposed of.

ORRIS.—Good Florentino fair sorts are getting into a smaller compass, and are now quoted at from 80*s.* to 82*s.* per cwt. on the spot.

OTTO OF ROSE.—Small sales of finest Bulgarian havo been made at 85*s.* per Eng. oz., at which price there are still sellers.

PEPPER.—At auction 32 bags Tellicherry sold at 11⅞*d.* for fair; private market is firm, with buyers of fair black Singapore at 11½*d.*; sellers of Tellicherry ask 1*s.*, and Alleppy 11⅝*d.* on spot. At auction 146 bags fair *white* Singapore were bought in at 1*s.* 1½*d.*; privately sales have been made at this price, and Muntok at 1*s.* 1¾*d.*

PEPPERMINT OIL.—Pure so-called Wayne County on the spot has been sold at 14*s.*, at which price sellers are not anxious to go on, 14*s.* 6*d.* to 14*s.* 9*d.* being the more general price. H.G.H. is dearer at 19*s.* to 19*s.* 6*d.* London terms.

PHENAZONE.—A fair quantity has been sold to arrive; spot holders offer at 55*s.* net.

PIMENTO.—At auction 150 bags fair were bought in at 3¾*d.*; privately spot sales have been made at 3¾*d.* for fair.

POTASH CHLORATE of Japanese make of excellent quality is offered on this market at 2*s.* 5*d.* per lb., being rather dearer than other makes, which offer at from 2*s.* 4*d.* to 2*s.* 4½*d.*

POTASH PERMANGANATE is quiet and nominal at from 13*s.* 9*d.* to 14*s.* per lb.

POTASHES.—Government-branded firsts are very firm at 200*s.* per cwt. on the spot.

QUICKSILVER continues extremely wide, with prices varying from about 20*l.* up to 25*l.* per bottle, business having been done just lately at both these figures. The higher price was paid for small lots only, emanating from uncontrolled sources. Holders in this direction seem to be able to dictate their own terms in the absence of competition and the limited resources in existence. Trading from controlled sources is subject to severe restrictions, while the quantities applied for outside urgent Government work are usually cut down, the authorities being very chary in the issue of permits. The price of 20*l.* is generally regarded as being fairly representative of the controlled market.

QUILLAIA.—Owing to increased charges in manipulating the crushed, value has risen to 57*s.* 6*d.* per cwt. on the spot.

SACCHARIN has been in good demand to arrive from U.S.A., with forward sales of 550 strength up to 360*s.* per lb.; on the spot 380*s.* has been paid.

SALICYLATES.—Salicylic acid remains in good demand, from 7*s.* 6*d.* to 7*s.* 9*d.* per lb. being quoted, while sodium salicylate is priced at from 14*s.* 6*d.* to 15*s.* per lb.

SALOL is firm at from 10*s.* 6*d.* to 11*s.* per lb.

SARSAPARILLA.—Mexican has been sold at 1*s.* 6*d.* per lb.

SENEGA.—In sympathy with the further advance in New York, where the price is equal to 3*s.* 10*d.* f.o.b., spot holders are now asking 3*s.* 10*d.* to 4*s.* net; sales to arrive have been made at 3*s.* 7*d.* to 3*s.* 8*d.* net, landed terms.

SHELLAC.—Spot prices are lower, with a fair business passing, TN Orango offering at from 230*s.* to 235*s.* per cwt. AC Garnet is quoted at 240*s.*

SULPHONAL is rather lower, crystals or powder offering at 39*s.* per lb.

TANNIC ACID.—*Leviss* is on the firmer side at from 6*s.* 9*d.* to 7*s.* per lb.

TARTARIC ACID is rather slow at from 2*s.* 10½*d.* to 2*s.* 11*d.* on the spot.

TURPENTINE has been quiet and unchanged, American closing at 57*s.* 3*d.* per cwt. on the spot.

VANILLIN.—Pure (100 per cent.) is more inquired for on the spot, prices ranging from 45*s.* to 46*s.* per lb.

Norwegian Iodine.

U.S. Consul Charles Forman reports from Bergen, Norway, that a company in that city desires to sell about 7,000 kilos. (15.432 lb.) of crude iodine, guaranteed 97 per cent. pure (analysis 97.8 per cent.), packed in oak kegs containing 70 kilos. (154.32 lb.) each. The price in dollars, cash against documents (at Bergen), is at the rate of 25 crowns ($6.70) per kilo. The same company also has about 300 kilos. of pure iodine for sale.

Formosan Camphor.

A cablegram from the United States Consul-General, Yokohama, Japan, to Washington says: "Consul at Taihoku, Taiwan (Formosa), reports that the estimated quantity of crude camphor to be produced for export for the year ending April 1, 1918, is 7,056,720 lb., the quantity to be apportioned to celluloid-manufacturers of America for the same period being 4,350,000 lb. Bad weather may reduce Taiwan's total production of crude camphor up to 1,320,000 lb., and may reduce apportionment to American manufacturers up to 594,000 lb."

Zanzibar Clove-stems.

An inquiry has been received from Zanzibar by the Imperial Instituto regarding the disposal of clove-stems which before the war were shipped principally to Germany. It is understood that this by-product of the Zanzibar clove-industry was used for two purposes: (1) grinding to powder, for use as a cheap spice in place of genuine clove-powder, and (2) distillation of volatile oil. There is not likely to be a large demand for the stems for the first of these purposes in the United Kingdom, but the possibility of distilling oil from them has been discussed with a number of distillers of essential oil, and as a result it appears probable that a market might be found for the stems for that purpose.

Spanish Quicksilver.

Spain's production of cinnabar in 1915 was 20,717 tons, an increase of 3,003 tons over 1914. Seventeen active concessions were worked by 1,334 labourers. In the Province of Ciudad Real, containing the famous mine of Almaden, 10,094 tons was mined, 1,062 tons less than in 1914; but the decrease was offset by the increased output of the two mines in Granada and the fourteen in Oviedo, all of which are much smaller than those of Almaden. This mine is owned by the Spanish Government, and in 1916 the Cortes empowered the Treasury to appoint a Committee to control the administration. The cost of production of quicksilver at Almaden increased from 34*s.* 6*d.* a flask in 1900 to 66*s.* in 1915. The cinnabar of Almaden is said to be the richest in the world, the rocks being literally saturated with quicksilver, and almost any quantity desired can be extracted. As much as 1,000 tons of the pure metal has been taken out in one year. This source is still unexhausted, although it has been exploited for centuries. The mines of Oviedo yielded 8,153 tons of ore and those of Granada 2,470 tons in 1915. The total production of quicksilver in Spain for the past five years is shown by the accompanying figures for mercury ore and commercial mercury, in metric tons: 1911, 19,940 and 1,494; 1912, 21,889 and 1,256; 1913, 19,960 and 1,246; 1914, 17,714 and 953; and 1915, 20,717 and 1,222.

Opium at Hong-Kong.

The clearances of certified opium from the Colony of Hong-Kong during 1916 were much reduced. After the first two months of the year the disturbances that took place in the Kwong Tung Province appear to have prevented the carrying-out of the agreement which the Opium Combine entered into on October 1, 1915. The actual imports and exports of certified opium during the year were:

	Malwa. Chests	Patna. Chests	Benares. Chests	Total. Chests
Imports	—	31	4	35
Exports	111	72	80	263

Of these, however, the imports all came from Shanghai, and of the total export of 263 chests 180 went to Shanghai. Very little was therefore done to reduce the actual stock of uncertified Indian opium held in Hong-Kong and Shanghai; 641 chests of Persian opium were imported during the year and 734 chests were exported, of which twenty-nine chests were exported to London and the remainder to Formosa; 1,030 chests of uncertified Indian opium were imported; 360 chests were imported by the Government monopoly, 500 chests were imported for the Macao opium-farmer, and the remaining 170 chests were nominally intended for Mexico, but, owing to suspicious circumstances connected with the shipment, they were returned to Calcutta.

South African "Gum."

A sample of typical South African gum, probably derived from the "white thorn" (*Acacia horrida*), was examined recently at the Imperial Institute. The material consisted of small fragments of clear, transparent gum, with one or two larger masses varying from almost colourless to reddish brown. Some pieces of leaf and twig were present in the sample. The gum, which yielded a mucilage

possessing good adhesive properties, was found on examination to contain 14.5 per cent. of moisture, 2.9 per cent. of ash, and 2.0 per cent. of matter insoluble in water. It had an acid number of 3.9, which is rather higher than that of good Sudan gums (1.2 to 2.4), while the relative viscosity of a 10-per-cent. solution at 22° C. was 8.0, which is lower than that of hard Kordofan gum (12.0). Attempts have been made from time to time to find a market for South African gum in the United Kingdom, but these have been unsuccessful except at times when Sudan and Senegal gums have been scarce and dear. There appears to be no reason, however, why a market should not be found for this gum in South Africa for use in confectionery, pharmaceutical preparations, adhesives, etc. If a local market of this kind were established and the collection of the gum organised, it might be feasible to start an export trade to the United Kingdom, as it would then be possible to ensure regular deliveries. Up to the present only occasional consignments have been placed on the British market, and as the gum differs considerably from the better-known Sudan, Senegal, and East Indian acacias, it has not been possible to induce large manufacturers to take any interest in it owing to the uncertainty of supplies. As a rule, the occasional consignments which have been placed on this market have been difficult to sell, and have realised low prices, compared with Sudan gum—viz., about 15*s.* per cwt.—but if regular supplies of South African gum of good colour and free from dirt could be placed here, it is probable that better prices would be obtained.

Arrivals of Chemicals, Drugs, etc.

THE following arrivals have taken place at the Ports of London and Liverpool:

To London.
(August 18 to 24.)

Antim. reg., 25 tons
Argol, 1,228 bgs.
Argyrol, 1 cs.
Arsenic, 83 cwt.
Baking - powder, 50 pkgs. 300 cs.
Balsam peru, 10 cs.
Betanaphthol, 1 pkg. 6 brls.
Bromides: potash, 20 cs.; sodium, 306 cwt.
Broom-root, 184 bls.
Buchu, 24 bls.
Calc. citrate, 9 bgs.
Calumba, 36 bgs.
Camphor, 10 cs.
Chemical prod., unrated, 6 cs.
Chloral hyd., 3 cs.
Cinchona, 107 cs.
Coca-leaves, 25 bls.
Cubebs, 40 bgs.
Dental goods, 1,901*l.*
Diethyltannin, 1 prcl.
Dioxogen, 300 cs.
Drugs, unrated, 51*l.*: barks and herbs, 70 pkgs.
Dyestuffs: cutch, 200 bxs.; galls, ext., 210 cs.; indigo, 130 chts.; myrabolans, 19,314 bgs. 4,532 pockets; tanners' bark, 912 tons
Ergoapiol, 8 cs.
Euphorbia pil., 19 bls.
Formic acid, 176 dmjhns.
Galls, 1,200*l.*; galls, powdered, 2,000*l.*
Gelatin, 1,188*l.*
Gums (cwt.): acacia 306; chicle, 126; grasstree 60; karaya, 40; olibanum, 1,138; sandarac, 161; tragacanth, 208
Henbane, 28 bls. 8 bgs.
Hydrastis, 3 bgs.
Lanoline, 662*l.*
Lithopone, 1,320 cks.
Loofahs, 612*l.*
Milk-sugar, 80 brls.
Mineral jelly, 100 cs.
Mineral white, 300*l.*
Nuts and kernels (cwt.): arachis, 312; copra, 7,150
Oils, essential, 6 drms. 22 cs.; *synthetic* 20 cs.
Ointment, 381*l.*
Oils, fixed: arachis, 4,000 cs. 467 cks.; castor, 1,250 cs.; coconut, 600 cs.; herring, 550 cs.; soya, 300 cs.; wood, 4,790*l.*
Opium, 20 cs.
Paraldehyde, 4 cs.
Peptone and preps., 30 cs.
Perfumery, unrated, 2,821*l.*
Phenacetin, 5 cs.
Phenalgin, 21 crts.
Quince-seed, 6 bgs.
Quinine, 166,634 oz.
Saffron, 1 cs.
Salicylic acid, 18 pkgs.
Sandalwood, 55 bdls.
Sarsaparilla, 6 bls.
Scammony-root, 226 bgs.
Seeds (bgs.): castor, 1,568; coriander, 6,481; cotton, 255 tons; cumin, 225; dari, 627; dill, 260; fenugreek, 1,048; lin, 29,730; mustard, 314; rape, 19,689
Senega, 18 bls.
Soap, toilet, 14*l.*
Soda salicylate, 6 cwt.
Sponge, 207 bls.
Starches (cwt.): dextrin, 200; farina, 3,187; potato-flour, 7,664; rice, 813
Tallow, unref., 3,886 cwt.
Tanglefoot, 1,538 pkgs.
Tartar, 648 bgs. 1,357 pkgs.
Theobromine soda sal., 2 cs.
Trioxymethylene, 22 cs.
Vacuum-flasks, 215*l.*
Valerian-root, 200 bgs
Wax, not described, 186 pkgs. 361 bgs. 300 cs.
Wax, paraffin, 3,248 cwt.
Wormseed oil, 2 cs.
Zinc oxide, 1,400 cks.
Cancelled entries: June 15, 50 cks. citric acid. June 18, 400 bgs. mustard-seed.

To Liverpool.
(August 20 to 25.)

Acetic acid, 12 brls.
Alcohol, wood, 4 drms.
Antim. sulph., 7 brls.
Argol, 1,465 bgs.
Bergamot oil, 4 cs. 2×½ cs.
Calc. acetate, 5 bgs.
Calc. borate, 3,926 bgs.
Cananga oil, 2 drms.
China-bark, 172 bls.
Cinchona, 17 bls.
Citric acid, 40 cks.
Citronella oil, 16 drms.
Cream of tartar, 80 kgs. 48 cks.
Dragon's blood, 15 cs.
Drugs, unrated, 1,718*l.* 40 bgs. 7 cs.
Dyestuffs: gambier, 1,858 cs. 1,864 bgs.; indigo, 20 cs.; log wood ext., 613 cks.; myrabolans, 3,000 pockets; sumach, 6,000 bgs.
Fullers' earth, 56 bls.
Gelatin caps., 251*l.*
Glycerin, dist., 3 cs.
Ipecacuanha, 49 bls.
Liquorice-juice, 34 cs.
Liquorice-root, 41 pkgs. 20 bgs.
Mineral white, 200 bgs.
Mirbane oil, 4 brls.
Nuts and kernels (bgs.): arachis, 596; copra, 15,707; palm kernels, 79,507 176 tons
Oils, fixed: arachis, 500 cs.; cod liver, 66 brls.; fish, 500 cs.; palm, unref., 6,365 cks.; seal, 524 brls.; sperm, 4,171 galls.; wood, 201 cks. 250 brls.
Potash, caustic, 6 drms.
Pumice-stone, 60 bgs.
Rhatany, 82 bls.
Rosin, 3,395 brls.
Saltpetre, 2,000 bgs. 285 tons
Seeds (bgs.): annatto, 55; dill, 740; mustard, 140; rape, 43,897
Soapstone, 600 bgs.
Soda ash, 190 brls.
Starches, 7,442 bgs.
Sulphur, 440 bgs.; rock 301 bgs.
Tallow, 240 cks.; stearine, 219 bgs. 96 cks.
Tartaric acid, 40 brls. 330 cks. 10 kgs.
Tuba-roots, 50 bls.
Wax, bees', 34 cs. 332 trusses 66 sks. 205 bgs.
Wax, paraffin, 100 cs.

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

"War Emergency Formula."

SIR,—The idea put forward of using the words "War Emergency Formula" or the letters "W.E.F." is quite a good one, and its adoption generally may save trouble with some officious public analyst. Even if B.P.C. alternative formulæ are published, these, as you point out, will have no legal authority, and, where B.P. titles are prescribed, pharmacists must guard against issuing modified substitutes unless with due precautions. I entirely agree with you that the announcement by the General Medical Council will have very little influence on prescribers, who will continue their favourite prescriptions, leaving it to the pharmacists to dispense them how they please. The G.M.C. ought certainly to have issued revised formulæ to take the place of those deleted, and this would have given them the full force of law and thus have prevented any doubt. In the meantime, if "W.E.F." is clearly indicated there can be no chance of difficulty arising through suspected substitutes. Yours truly,

CEDRIC. (91/19.)

SIR,—Your very practical and helpful suggestions regarding temporary war-time formulæ interest me greatly, as no doubt they do many brother-pharmacists. In connection with your suggestion in last week's issue as regards a suitable substance to replace the sugar in compound liquorice-powder, one or two alternatives have occurred to me, and they may prove useful. Seeing that wheat-starch and oatmeal are barred under the Maize, Barley, and Oats (Restriction) Order, would it not be possible to employ either potato-starch or casein as a diluent, and sweeten, if necessary, with a minute quantity of saccharin? The experiment is worth trying—if, of course, there are no serious therapeutical or Governmental objections—and I commend it to the manufacturing houses for trial. It is all very well for the retailer to theorise on small quantities, but it is necessary for such things to be made in large quantity, and the experimental laboratory of the wholesale house is the proper place to work such ideas out to practical perfection. Will no enterprising firm give us a lead, and issue promptly a complete list of the deleted preparations made according to "W.E.F." methods? There is big business in it, if done at once.—Yours faithfully,

London. CHRISTOPHER COURTENAY.

The Progressive Pharmacy Club.

SIR,—Two of the founders, Messrs. Humphrey and Skinner, have written in your columns regarding the aims of this Club, and perhaps I, another of its founders, may be allowed to say a few words. Catering for the social intercourse of pharmacists is good, distinctly good—the man who can drag a "pill-puncher" from his back-parlour has not only done good to the individual, but has benefited humanity, inasmuch as it does one good to behold the world occasionally and to realise that life should not be horizoned by Mr. A up the street and Mr. B round the corner, *plus* the weekly advent of the *C. & D.* Let the hard-headed "kilties" of the North meet the no less hard heads from Devon, let the dilettante from West London rub shoulders with the democrat from the East, and far better work will be done than can possibly accrue from the "evangelical mission," under the auspices of the Local Associations Executive, now touring the provinces—that is, if the meeting held recently at No. 17 be any criterion. There is, however, a much bigger object underlying the aims of the P.P.C., unless I mistake its portents. Some of us, anyway, view it as the nucleus of a big movement—one that will act as the most powerful lever yet known to pharmacy. If I am not mistaken, there will be selection, co-ordination, and crystallisation of the best ideas—democratic ideas—ideas that shall have as their object the ruling-out of government by bureaucracies. Members of the Club Executive are fairly awake, and may be trusted to make their ideas known; but unless the backing of the bulk of qualified pharmacy is obtained, in the form of corresponding members (at 5*s.* per annum), the whole movement will probably degenerate into just a club.—Yours, etc.,

Streatham, August 22. C. BREESE.

Pereira's Prosodaical Vocabulary.

SIR,—I agree with the remarks of "Canus" (*C. & D.*, August 25, p. 51) concerning Pereira's prosodaical vocabulary. It is a pity that he did not leave some notes to elucidate the more uncommon names in "Selecta e Præscriptis." The three mentioned by "Canus" are quite interesting. *Acinula* was the generic name under which ergot was first introduced to the London Pharmacopœia in 1836. *Æthiopis* (a herb) was a species of *Salvia* known in the seventeenth and eighteenth centuries as Æthiopian clary. *Cataputia* was of two kinds—*minor* and *major*. The former consisted of the seeds of a garden spurge, but the croton-seeds seem to have been used under the same name. *Cataputia major* was the seeds of *Ricinus communis*.

Yours truly,

Manchester. WILLIAM KIRKBY.

Retailers and Price-changes.

SIR,—I think the time has arrived when retailers should unite seriously to consider the war-time changes in the prices of proprietary articles. Proprietors of these, faced with increased charges, are right, of course, in conserving their own interests, but in fixing new figures they should consider the retailers. Very often the wholesale price to the retailer is increased by, say, a shilling per dozen without any increase in selling-price to the public, meaning, of course, a corresponding decrease of profit. Usually, however, the practice is to increase both the wholesale and the retail price by the same amount—*e.g.*, a 1*s.* article at 9*s.* is made 1*s.* 3*d.* and 12*s.* This is most deceptive, and I am afraid retailers as a class are not realising their position. The amount of profit being the same as before, one is apt to overlook the fact that such a transaction means a smaller percentage on outlay, while the outlay itself is larger than formerly. The wholesaler still gets his fixed discount as of old, and comes off very well, as this discount is calculated on a larger sum of money consequent upon the higher figures. The owner of the proprietary has already been met, but the brunt of the whole thing falls, as I have shown, on the retailer, and instead of his profits being increased to meet his increased expenses they are seriously decreased all round. I hope retailers will wake up from their apparent lethargy and look to their interests before it is too late. Every body of workers is nowadays looking for increases in remuneration to meet present-day calls, and I think retail pharmacists should unite through their Associations to look carefully into this matter of proprietary articles. REGULATOR. (119/36.)

The Fly in the Ointment.

SIR,—I was much interested in reading the criticism of "Xrayser II." on my letter to the "Bristol Times and Mirror" concerning the popular misconception of Ecclesiastes x. 1, while it was quite news to me that Beelzebub was the lord of flies. I do not question for one moment the wide and detailed knowledge of Beelzebub matters possessed by pharmacists. I remember on one occasion calling the attention of one of the craft to something which had gone wrong in manipulation, and he at once explained, "That's the devil of it." Others I have heard explain supplicatingly, "Devil take it!" and sundry other allusions to Satan as being associated with awkward incidents have reached my ears from time to time during the last fifty years' experience with pharmacy. In the passage alluded to "Xrayser II." judges from the contextual metaphor that dead flies spoil the ointment, but do dead flies ever get into it except by the intent of the maker? If the flies got in accidentally they would be living ones. Dead, I admit, if allowed to remain there; but what sort of an apothecary would he be who, when making a precious perfumed ointment, did not at once remove them? The correct rendering is given in the margin, "flies of death," and as cantharides are a poison under Part I. of the Poison Schedule they would answer well to this description; and that they do cause the ointment of the apothecary to send forth a stinking savour is an undisputed fact. The teaching of the verse is in no way interfered with by what I have put forth. Just as the "flies of death" are the cause of the stink in the ointment, so doth a little folly send out a bad odour from him who otherwise had a reputation for wisdom. J. SPENCER PALMER.

Thornbury, Glos.

Irish Assistants' Wages.

SIR,—In your columns recently the Irish assistants have been agitating for an increased wage. There can be no doubt whatever that this is a fair and just demand. In England we hear every day of war bonuses and fabulous wages paid to munition-workers and allied trades. The cost of living has gone up in England, but in the case of the worker adequate wages have followed. All he lacks now, with his pockets full of money, is beer, and the Government have very quickly yielded to his demand for a supply. But here in Ireland the prices have gone up too, and the average assistant has certainly not got anything like a corresponding increase. It is all very well for the employer to say that he cannot afford it. If he puts on a sufficiently stiff price to guarantee a decent wage to his assistant no one will grumble, and it is better to do it decently at once, for it must inevitably come.

Yours truly,

Rathkeale. P. J. HICKEY, M.P.S.

School of Pharmacy Fees.

SIR,—I was interested in the list, in the Educational Number, of the different schools of pharmacy. It would, however, be still more interesting if a time-table were issued as well. The fees seem to be moderate, but that does not give any indication of the remuneration, because time given to the instruction is not recorded. It would be useful to know what is the price per hour. In a Midland city it is 5*s.* per hour, and often more, but such an expression as "Fee, 3*l.* 3*s.* for three months" looks more like the proverbial tinman's price of 1*s.* per hour.

ORTHOX. (56/19.)

Dispensing Difficulties and Notes.

Price of Mixture.

SIR,—What is a reasonable price for the following in these times?—

Salol	gr. cc
Paraffin. liq.	ʒxxx.
Ol. amygd.	♏cccc.
Ol. ricini	♏cccc.
Ol. limonis	♏xx.
Calcii lactis	gr. c.
Pulv. acaciæ	ʒij.
Aq. ad.	℥x.

Yours truly,

Cobham. W. M. TIMS.

Phenazone-and-Quinine Powders.

SIR,—How would you dispense the following powders?—

Phenazon.	gr. v.
Quin. sulph.	gr. ij.

T.d.s.

Yours truly,

C. B. (190/41.)

[Powder the phenazone and quinine sulphate separately, and mix lightly on paper. This is a safe procedure when in doubt as to the result of mixing In the present instance, however, there is not need for caution. The two substances can be triturated together without any disturbance; the mixed powder remains dry and free. There is a suggestion in circulation that phenazone and quinine salts are incompatible in mixture form, but this does not apply to the dry powders.]

A Safe Mixture.

SIR,—I should be glad if you will inform me whether the following mixture is safe:

Liq. Fowleri	♏ij.
Mag. sulph.	gr. xx.
Aq. ad	ʒj.

T.d.s.

Surely the pot. carb. in the liq. Fowleri is incompatible with the mag. sulph.?—Yours truly,

INEXPERIENCED. (109/40.)

[The mixture is quite safe. No visible change occurs. Potassium carbonate may be regarded as incompatible with magnesium sulphate, but the quantity in the Fowler's solution prescribed in the mixture is so minute as to be negligible. A much larger quantity is required before evidence of incompatibility appears, and even then, the precipitate being only magnesium carbonate, no danger to the patient arises.]

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

Tyke (110/30) wishes to exhibit advertisements in the windows of an empty shop adjoining his own. If he does so, will he be liable to pay rates in respect of the empty shop? [We are of opinion that he or the owner of the empty shop would be rateable in respect of the shop according to the value of its use for the exhibition of advertisements.]

H. & Co. (114/55).—The Pharmaceutical Society have obtained convictions in cases where retail shops owned by unqualified persons have displayed the words "wholesale druggists and manufacturing chemists." This need not depend upon the sale of poisons at the shop, but upon the use by unqualified persons of the protected titles "chemist" and "druggist."

M. C. C. (70/57).—If you trade under a company name, you will require to register under the Registration of Business Names Act, give the names of the partners on "trade catalogues, trade circulars, showcards, and business letters," and display the certificate of registration on the premises where the business is carried on. The modern method of carrying on business is by a limited company, which has several advantages over a partnership.

J. B. (115/62).—POISON-LICENCES.—In Great Britain poison-licences only cover the sale of substances for agricultural and horticultural purposes which are poisonous "by reason of their containing arsenic, tobacco, or the alkaloids of tobacco"; but the Privy Council has power to add to or remove from the list any poisonous substance. In Ireland carbolic-acid preparations have been added by an Order in Council, because in the Poison Schedule of the Pharmacy Act (Ireland) the exception which is made in the Poisons and Pharmacy Act in regard to carbolic acid does not apply.

Syrupus (116/53).—"Syrupus," trading as the Saccharissa Drug-stores, issues annually a wall-calendar, which he distributes free to his customers. The only wording on the card is, "With the Compliments of the Saccharissa Drug-stores," followed by the address. He asks whether his personal name as the proprietor must also appear. [Section 18 of the Registration of Business Names Act states that the name of the proprietor of the business must appear on all "trade catalogues, trade circulars, showcards, and business letters." It could be argued that a calendar sent out as an advertisement of the business is a "trade circular," but that would, we think, be stretching the meaning of that expression in the case in question. At the same time, "Syrupus" ought to take every opportunity of connecting his name with the business, and, incidentally, demonstrating that he is not of alien origin.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. E. P. (105/61).—We know of no cheaper base for a solid perfume than hard paraffin, which is quite satisfactory.

A. B. (101/19).—VIOLIN-VARNISH.—The colouring-matter used for staining the wood of violins is red sanders, dragon's-blood, alkanet, or logwood, the first two being considered more permanent. The wood is stained before the varnish is applied, but some violin-makers use also a coloured varnish. The formula you send does not seem to be very scientifically constructed; it would be better to experiment with the following recipes:

I.

Sandarac	ʒiss.
Shellac	ʒvj.
Mastic	ʒvj.
Elemi	ʒiij.
Spirit	ʒxx.

Dissolve by shaking, then warm and add—

Venice turpentine ...	ʒvj.

Dissolve, allow to stand until clear, and decant the clear portion.

II.

Sandarac	ʒvj.
Mastic	ʒiij.
Turpentine varnish ...	ʒx.
Spirit	Oiv.

Dissolve by standing in a warm place and shaking occasionally.

A. Bell (116/41).—The University and technical schools in your city offer special facilities for obtaining instruction in metallurgy. The particulars you can obtain from the Calendar published by the University or the syllabus of the technical schools.

Lux (115/56).—We do not think there is any method of fixing aniline-violet pencil-markings on calico. Some degree of permanence might be obtained by wetting the part with albumen, drying, and coagulating the albumen by passing over it a hot iron.

Res (116/52). — ANTI-FOULING COMPOSITION FOR SHIPS' BOTTOMS:

Indian red	1 cwt.
Chalk	1 quarter
Arsenic	7 lb.
Red oxide of mercury	7 lb.
Linseed oil	1½ gal.
Oak varnish	1½ gal.

Mix well together in a paint-mill and then with a sufficiency of varnish-thinnings.

D. M'K. (115/53).—SULPHUR BATHS.—Sulphurated potash dissolved in water is used as a sulphur bath. The quantity used varies from 4 oz. to 8 oz. for a bath of 30 gals. At the London Hospital another type of sulphur bath is used, made as follows:

Precipitated sulphur	4 oz.
Hyposulphite of soda	1 oz.
Dilute sulphuric acid	1½ dr.
Water (98° F.)	30 gals.

S. H. P. (114/61).—Murrell's "What to Do in Cases of Poisoning" is published by H. K. Lewis, 136 Gower Street, London, W.C., at 3*s*.

W. P. (116/62).—VARNISH STAINS:

Mahogany.

I.

Sandarac	1 lb.
Shellac	½ lb.
Venice turpentine ...	2 oz.
Dragon's-blood ...	4 oz
Spirit	1 gal.

II.

Dragon's-blood ...	1 oz.
Orange shellac ...	1½ oz.
Spirit	1 gal.

Walnut.

Shellac	1½ lb.
Bismarck brown ...	1 oz.
Nigrosine	½ oz.
Spirit	1 gal.

Ebony.

Shellac	1½ oz.
Nigrosine (spirit-soluble)	2 oz.
Spirit	1 gal.

R. C. (116/49).—PREPARATION OF FORMIC ACID.—We do not recollect the details of the preparation of formic acid from nettles, but doubtless it is a process of distillation such as is used in making spiritus formicæ—a preparation of ants which appears to be still in use on the Continent. Formic acid is, however, usually made by distilling glycerin and oxalic acid. The pure acid (100 per cent.) is a powerful caustic, and must be handled with care. Fifty-per-cent. formic acid is used for making formates, the esters of formic acid, and in electroplating. The medicinal variety of formic acid, containing about 25 per cent. of the acid, is given in doses of from one to five minims in cases of rheumatism, neuralgia, and diabetes.

W. S. (117/3).—DRY SHAMPOO-POWDER FOR THE HAIR.—This is mainly starch, but contains a proportion of powdered orris-root—about one of orris-root to three of starch. Another kind consists of equal parts of magnesia and starch.

H. K. J. (110/49).—PILE-POWDER OF FRENCH ORIGIN.—The active principle of this powder is the precipitated sulphur, which constitutes about a quarter of the bulk, the rest of the powder being, we believe, powdered liquorice. Sulphur is given for piles mostly in the form of confectio sulphuris or mixed with an equal quantity of magnesia levis—a teaspoonful in milk each night at bedtime.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Sept. 14, 1867

Glycelæum: A Proposed Basis for Ointments.

This was one of the papers read before the British Pharmaceutical Conference. Mr. T. B. Groves, F.C.S., stated that he obtained the idea after compounding a salad paste of mustard, syrup, and olive oil. The ointment-base which he produced was a mixture of almond meal, glycerin, and olive oil, and it is interesting at the present time to read his remarks about almond meal:

"I tried the finely powdered farina of other oil seeds, such as linseed and almond, and was gratified to find that either will answer the purpose as well as mustard. I have no doubt that all the oil seeds, when deprived of their oil by pressure and then reduced to powder, answer equally well, though perhaps not all with equal power. The meal of decorticated pressed sweet almonds is that which I prefer and which I have used. Messrs. Barron, Harvey & Co., who express a good deal of almond oil, were kind enough to prepare for me a cake of this article. When powdered it should be passed through a fine silk sieve—cypress or lawn; it refuses altogether to go through a fine wire sieve."

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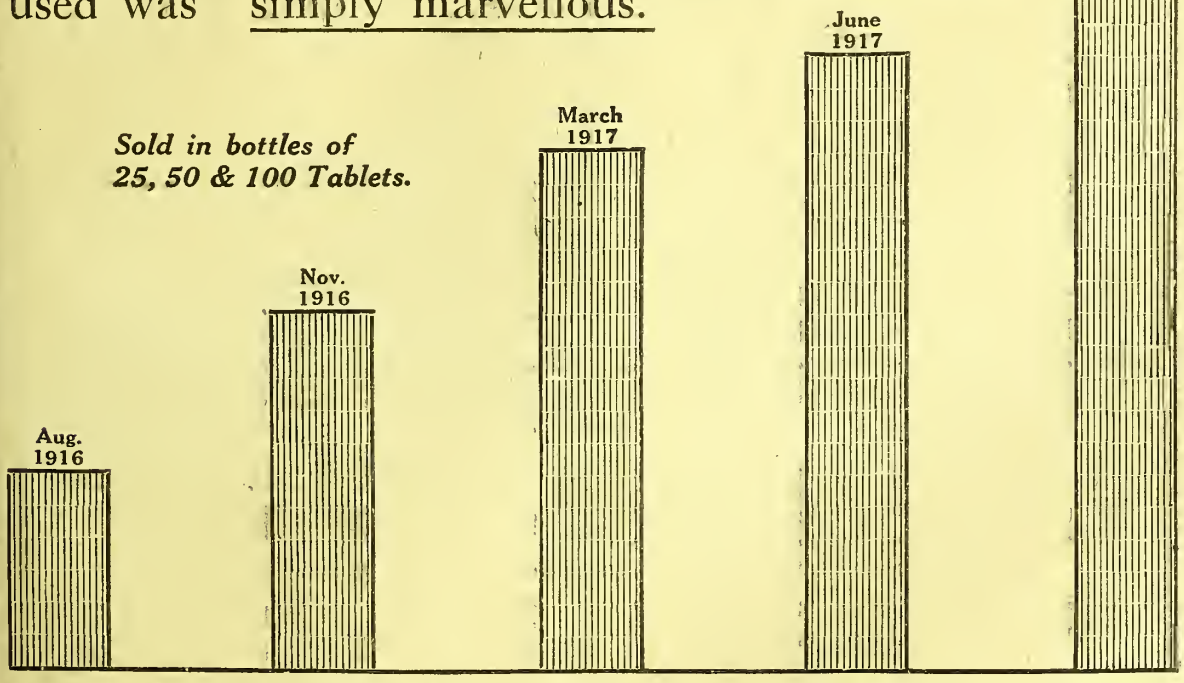

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Oxymel Scillæ, B.P., 1 cwt. @ 95/-cwt.; *7 lbs. @ 11½d. lb.

Papain, 1–80, 1 oz. @ 3/- oz.
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Quinine Bisulph., 10 oz. @ oz.
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Quinine Hydrobromas, B.P., 25 oz. @ 3/11 oz.; 10 oz. @ 4/- oz.
Quinine Hydrochlor., B.P., 25 oz. @ 4/1 oz.; 10 oz. @ 4/2 oz.
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Rad. Rhei., E.I., English Ground, 1 cwt. @ 1/5 lb.; 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9 lb.
Rad. Rhei, E.I. Trimmed, 7 lbs. @ 5/3 lb.; 1 lb. @ 5/9 lb.
Resorcin, B.P. 1 lb. @ lb.

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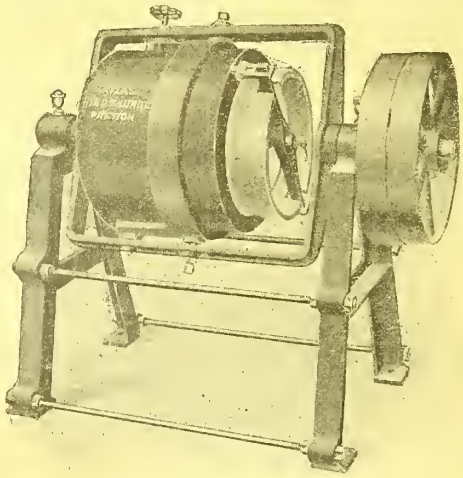

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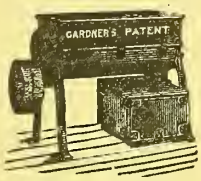

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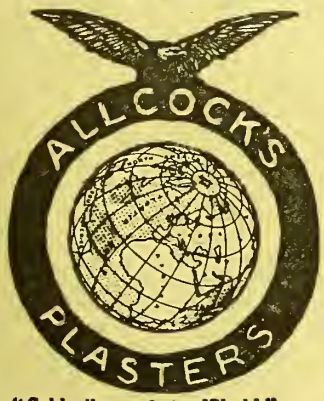

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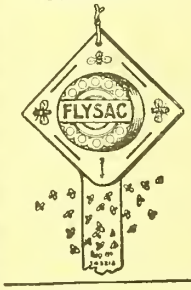

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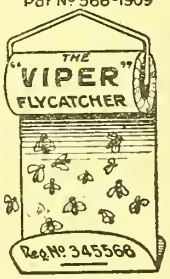

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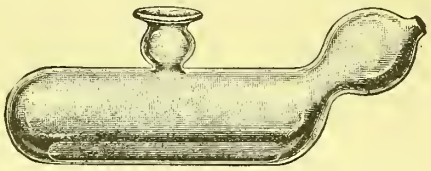

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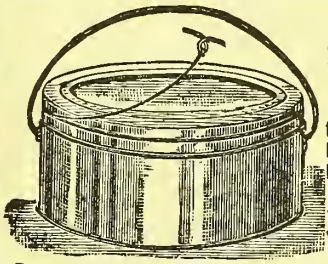

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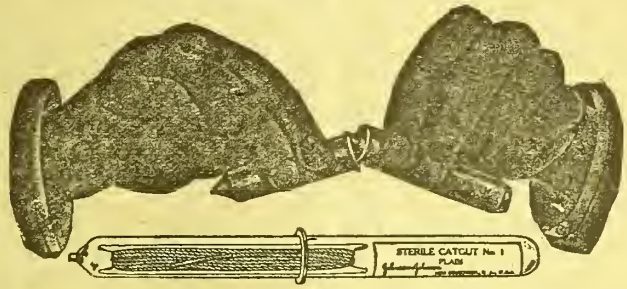

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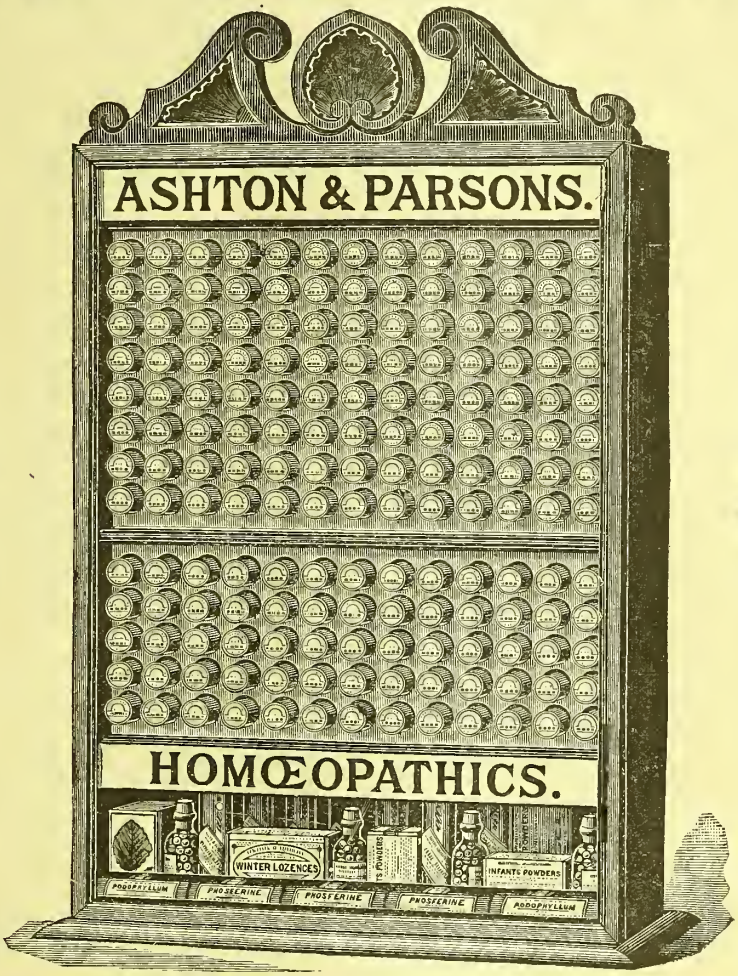

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OFFICE: 42 CANNON STREET, E.C. SATURDAY, SEPTEMBER 1, 1917

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NO CHARGE TO PURCHASERS.

1.—BIRMINGHAM.—Very profitable Cash Retail; main road position; low rent; returns £900; net profit £320, besides £30 from Agency; books properly kept; smart well-fitted Pharmacy, heavily stocked; urgent family reasons necessitate a quick sale; price only £450; much under valuation.

2.—SOUTH COAST.—Sound, unopposed Light Retail Business; returns under manager £600; plenty of scope for increase; rising town; low rent; modern fitted shop, fully stocked, price £375.

3.—LEICESTERSHIRE.—Genuine Cash Drug Stores; same hands 15 years; now called up; returns average £630; net profit £200; good house and Pharmacy; well stocked; one other Chemist; price £300 or valuation.

4.—LIVERPOOL.—Light Retail and Prescribing; no side lines; all ready money; returns under Manager £16 a week, increasing; corner double-fronted shop; good house; price £350.

5.—WEST END.—High-class Dispensing Business for private disposal; occupying a very prominent position, and with scope for considerable increase; returns average £2,000; excellent profits; books properly kept; price £1,100; references required; splendid chance for two smart men

6.—LONDON, N.—Genuine Cash Retail with N.H.I.; in same hands 24 years; now retiring; returns £800; net profit over £250; large, handsome shop; prominent corner position, and in younger hands would soon do £20 weekly; price £300 or valuation; half can remain.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application. See page 90 of the *C. & D. Diary*, 1917.

MESSRS.

TOPLIS & HARDING

AUCTIONEERS, Established 1790

66 Cannon St., London, E.C. 4

will SELL by AUCTION at the

LONDON COMMERCIAL SALE ROOMS, On WEDNESDAY, SEPTEMBER 12, 1917,

Partly Without Reserve,

Aniline Dyes (about 100 lots)

Tartaric Acid	**Boracic Acid**
Logwood Extract	**Sanders Wood**
Beta-Naphthol	**Benzo-Naphthol**

and about

480 Gal. Medium Hard Spirit Varnish

Also the following

SALVAGE

on behalf of Lloyd's Underwriters,

200 BALES CINNAMON

(about 8½ tons),

4 BALES SENNA

(about 14 cwts.), now lying in London.

Catalogues may be obtained upon application at the Auctioneers' Offices, 66 Cannon Street, London, E.C. 4.

Saleable Stocks of any description may be included in these periodical Sales.

BATTAM & HEYWOOD

(Estd. 1837)

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS.

Balance Sheets Prepared. Books Audited.

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PARSON C. BAKER

(Pharmaceutical Chemist),

Trade Valuer & Transfer Agent.

Recommended by The British Drug Houses, Ltd.; Messrs. Megg son & Co.; Barclay & Sons, Ltd,

Valuer to the Association of Manufacturing Chemists.

1 Mountfield Road, CHURCH END, FINCHLEY, N.

Tel. No.: Finchley 812.

BUSINESSES FOR DISPOSAL (*continued*).

FOR immediate disposal through health, high-class Retail and Dispensing Business; established 20 years, with a steady turnover of £2,000 per year, and scope for increase; excellent position; well-fitted and stocked fixtures alone cost £900; for quick sale would accept £1,000 or near offer. Apply "A. B. C." (119/60), Office of this Paper.

GENUINE old-established Retail and Dispensing Cash Business in good-class district of seaside resort; returns £1,400 to £1,500; lease and fullest investigation; owner retiring; a bargain for quick sale; same hands many years. "Lancashire" (67/24), Office of this Paper.

CHEMIST'S BUSINESS FOR SALE IN OBAN.

OFFERS are invited for that well-established WHOLESALE and RETAIL CHEMIST'S BUSINESS carried on for the last 35 years by Mr. Samuel Lawrence at 101 George Street, Oban.

The business has an excellent connection throughout the whole of the Western Highlands, and the annual turnover exceeds £3,000 per annum. The stock on hand is in good condition.

For further particulars apply to the subscribers, or to Messrs. L. & J. McLaren, W.S., 23 Rutland Street, Edinburgh, or Mr. Parkin S. Booth, Accountant to the Association of Manufacturing Chemists, 32 Kimberley House, Holborn Viaduct, London, or 2 Bixteth Street, Liverpool, with any of whom offers must be lodged forthwith.

A. T. NIVEN & CO., C.A.

1 Charlotte Square, Edinburgh,
16th August, 1917.

BUSINESS FOR SALE.

INCREASING SALES.
ESTABLISHED OVER 50 YEARS. BIG REPUTATION.
CASH, £20,000.

VETERINARY Medicines, Condiments, Farm and Stable requisites, Staff of Travellers; suit combination of Veterinary, Chemical, Accountant and Commercial gentlemen. Purchasers would be initiated by Proprietors, who wish to retire.

Replies from Principals or their Solicitors only will receive attention. Address Box 500, c/o Hannaford & Goodman, Ltd., 57 & 59 Ludgate Hill, London, E.C. 4.

FOR SALE.

FOR SALE, one Suppository Mould 12, one Pessary Mould 12, one Pill Machine, cuts 24; one Cachet Machine. What offers? Mahogany Fittings for small Pharmacy; Shop Rounds. Particulars from 68/23, Office of this Paper.

NATIONAL Cash Register (second-hand), latest type, for sale; detail strip and total adder. Write for particulars to F. Butler, 37 Jutland Road, Catford, S.E. 6.

PHENAZONE, 1 lb. 56*s.*, ¼ 14*s.*; 1 Phenacetin 87*s.* 6*d.*, ½ 22*s.*; 1 F.Q.C., 17*s.* 6*d.*, ½ 8*s.*; 1 Ol. Amygd. Ess. Ang. S.A.P., 55*s.*; ½ Thymol, 25*s.*; 1 Ext. Hyos. Vir., 9*s.*; 1 Calomel, 6*s.* 6*d.*; ¾ Theobromine, 50*s.*; 1 Ol. Santal. F. Ang. 45*s.*, ¼ 12*s.*; ½ Barbatone, 52*s.*; 7 Iodoforms @ 16*s.* 6*d.*; 2 Ext. Opii 98 at 60*s.*; 1 Ext. Opii Sic., 62*s.*; 1 Ol. Caryoph Ang., 8*s.* 6*d.*; 2 oz. Morphia Hyd. at 14*s.*; ½ Eucaine Lactate, 3*s.* 6*d.* Inch, Chemist, 178 Kennington Park Road, S.E. 11.

4 OZ. 5 gr. B.P. Phenazone Tabs., 11*s.*; 5 oz. Phenazone Pulv., 17*s.*; 8 oz. Bismuth Subgall, 5*s.*; 1 lb. Menthol, 13*s.* 6*d.*; 10 lb. Arrowroot Opt., 6*s.* 6*d.*; 4 oz. Vanilline, 8*s.* 6*d.*; 6 oz. Sodii Iodide, 5*s.*; 1½ lb. Sodæ Cit., 4*s.* 10*d.*; 3 lb. Acid Cit. Crystals, 10*s.*; 4 lb. Iron Lactate, 6*s.*; 1½ lb. Pot. Permang., 21*s.*; 2 lb. Calcii Hypophos, 7*s.*; 22 lb. Oxycyanide of Mercury, £7; ½ lb. Ichthyol Ammon., 3*s.* 3*d.*; 8 oz. Salol, 5*s.* "B.," Chemist, 97 Borough High Street, S.E. 1.

AGENCIES.

LARGE FIRM, manufacturing Surgical Dressings, Druggists' Sundries, Perfumes and Packed Chemists' Goods, are desirous of appointing Agents and Representatives in British Colonies and Foreign Countries, where unrepresented. Apply, "Expansion," 113/2, Office of this Paper.

AUSTRALIA.—A Manufacturers' Representative in close touch with the trade throughout Australia is desirous of securing Agencies for respectable Houses handling General Chemical and Toilet Lines; first-class references can be furnished; Bankers, Commercial Banking Co. of Sydney. Lynton H. Barrington, *Daily Telegraph* Buildings, Sydney, N.S.W., Australia.

EGYPT.—London Merchant with office in Cairo, well connected in the trade, and representing already leading English Manufacturers for Tooth Pastes, also for Medicated and Toilet Soaps, is willing to get in touch with Manufacturers of Pharmaceutical Products, Druggists' Sundries, Chemicals, etc., with a view of representation now or after the war for Egypt and the Near East; best London references. Apply 58/30, Office of this Paper.

LONDON Firm with good general trade connection desires Agency of important Manufacturer wishing to be represented in London for a home and shipping trade; offices central. Apply 62/2, Office of this Paper.

AGENCY OFFERED.—Firm advertising in "C. & D." desire to supplement their advertisements by a direct canvass; the lines offered are smart, and an enormous sale can be easily made; 25% commission given; an energetic man should clear at least £7 per week, taking this as an additional side-line; preference given to man already on ground; London, South Coast, Wales, East Coast, Midlands; two references desired. Apply 111/29, Office of this Paper.

REPRESENTATIVE with sound connection, covering Gloucestershire, Wiltshire, and Somerset areas, is open to accept two or three Agencies for going lines; 15 years' experience; highest references. Reply 65/34, Office of this Paper.

TENDERS.

IN LIQUIDATION.

The business of H. S. LOVELL & CO., LTD., manufacturers of the "Glitterit" Metal Polishes, Boot and Furniture Polishes, "Antis" Disinfecting Tablets, and a number of similar lines, is for Sale by Tender.

The plant consists of machinery for the manufacture of the above goods, stock, trade marks, and goodwill.

The Liquidator is prepared to accept offers for the business as a going concern, and will supply full particulars upon application. Write H. A. McCann, 8 Queen Street, London, E.C. 4.

PARTNERSHIPS.

WANTED, Partnership or Share in good Chemist's or Wholesale house (preferably in Scarborough) by Medical Man's Son; good organiser; business tact; many years Dispenser and Retail. Apply 64/80, Office of this Paper.

APPRENTICESHIPS.

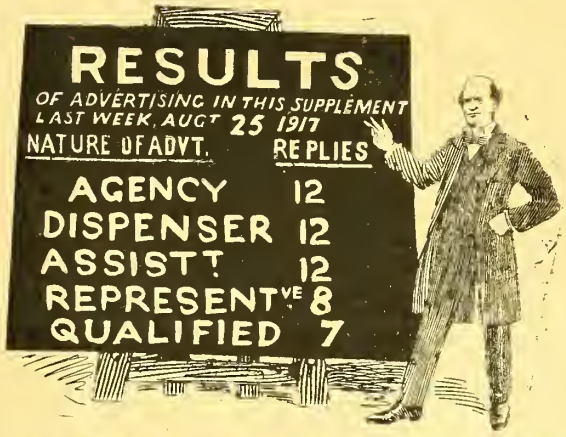
APPRENTICE or Improver, an opening for, either gentleman or lady. For particulars apply to Mr. Thresh, Pharmacist, Buxton.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have **replies** addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BOLTON UNION.

TOWNLEYS HOSPITALS.

WANTED for the Townleys Hospitals, Farnworth, near Bolton, a qualified DISPENSER (male or female).

Salary £80 per annum, increasing after one year's service to a maximum of £100 per annum, with Rations, Apartments, and Washing.

Applications (on forms which may be obtained from me with print of conditions of appointment, and for which a stamped addressed foolscap envelope must be enclosed) may be sent to me not later than the 10th September, 1917.

Canvassing the Guardians either directly or indirectly will be a disqualification.

H. I. COOPER,
Clerk to the Guardians.

28 Mawdsley Street, Bolton,
27th August, 1917.

BRIGHTON.—Wanted, early in October, competent Assistant for high-class Retail and Dispensing business; ineligible for military service. Parris & Greening, 105 Church Road, Hove.

BRISTOL.—Competent Assistant (ineligible for Army) wanted for Dispensing and Retail Counter at branch; hours 8.30 to 8, Saturdays to 9.30, no Sunday duty, closed Wednesday afternoon; outdoors; application from lady Assistant would be entertained; quote references and state salary required. Apply Managing Director Hodder's, Ltd., 5 Nelson Street, Bristol.

BROADSTAIRS.—A competent Assistant required; ineligible for military service; must be a reliable Dispenser; state age, height, salary, and full particulars. Julian Horrell, Chemist, Broadstairs.

CHELTENHAM.—Manager wanted for good-class Dispensing business; no N.H.I. Full particulars to A. Milne, College Pharmacy, Cheltenham.

CLACTON-ON-SEA.—Qualified Manager wanted (ineligible for Army) for Dispensing, Retail, and Photographic business. Apply, stating usual particulars, to Mann, Chemist, Clacton-on-Sea.

DARTFORD KENT.—Good opening for smart, capable lady Dispenser; must have had good experience. State salary required and when at liberty. Apply 65/211, Office of this Paper.

EALING.—Wanted, qualified Assistant with a view to Managership; liberal salary. Sanguinetti & Harding, 120 Uxbridge Road, Ealing. Telephone, Ealing 727.

EPSOM.—Manager, immediately, for good-class business; smart man can obtain good remuneration; good knowledge of Photography essential. State salary, etc., Roe, Chemist, Epsom.

HERNE BAY.—Wanted, Locum for about a fortnight, early in September; outdoors. State references (recent), age, terms, and all particulars in first letter, Neale, Mortimer Street, Herne Bay.

KENT.—Good opening for capable unqualified male Assistant; permanency, with progressive salary. "Kent" (65/210), Office of this Paper.

LIVERPOOL.—Wanted, lady Dispenser with good experience required for high-class Dispensing business; no Sunday duty; permanency. Also lady Assistant; Counter knowledge essential, and some Dispensing experience. Apply, stating salary and usual particulars, G. H. Cole, Pharmacist, Blundellsands, Liverpool.

LONDON.—First-class Manager required for high-class Pharmacy; applicants must produce undeniable references and be capable and energetic; proprietor willing to give liberal interest in the profits to anyone prepared to throw his whole interest into the management. Apply 65/21, Office of this Paper. Paper.

LONDON.—Lady Assistant for Counter, etc., with experience preferred: good salary. Or a capable hand wishing to acquire knowledge of the trade. Ling, 281 Hackney Road, N.E.

LONDON SUBURB.—Wanted, a reliable Assistant for N.H.I. Dispensing and quick Cash Retail; must be well recommended. Apply to Davy, Chemist, Edmonton, N.

LONDON, S.W.—Outdoors, immediately, Assistant, lady or gentleman, qualified preferred, for Counter and Dispensing (no Insurance); near Pharmacy Schools. Send full particulars, experience, F. H. Glew, Chemist and Radiographer, 156 Clapham Road.

LONDON, W.—Locum wanted at once for two or three weeks for Dispensing and good-class Retail business. Also Assistant two or three evenings a week and occasionally Sunday duty. Harold Lyon, 18 Formosa Street, W. 9.

MAIDSTONE.—Qualified Manager for Branch; Light Retail and some Prescribing, with considerable General trade; suit married man; good house and garden; fine opening for Dentistry or Optics; purchase or part profits entertained. State age, salary, and references to Wells, Chemist, Maidstone.

MANCHESTER.—Young lady, with some Counter and General experience, required for Chemist's establishment situate in working-class district; comfortable; permanency. "Manchester" 65/212, Office of this Paper.

MANCHESTER.—Qualified Manager for branch, Light Retail, in middle-class district; easy berth and permanency to suitable man; plenty of scope, as business requires working up; house attached to shop; good references essential. Apply, stating age, salary expected, experience, etc., to 67/39, Office of this Paper.

MANCHESTER.—Managing Assistant wanted for Drug Store in working-class district; knowledge of Dentistry an advantage, not essential; salary £2 2s.; good house free; scope for good man prepared to work single-handed; business is old-established and well stocked. Apply 67/360, Office of this Paper.

MANCHESTER DISTRICT.—Qualified Manager required, also Junior Assistant (both outdoors). Full particulars of previous experience to T. & W. Woodruff, Chemists, Cheadle, Cheshire.

NEAR BIRMINGHAM.—Qualified Manager required for Light Retail and Dispensing business; good agreement, with interest in the profits, offered to a smart and energetic man. State age, whether married, salary required, and when at liberty, "Midland" (67/28), Office of this Paper.

RHYL.—Wanted at once, experienced Assistant; unqualified (outdoors); easy hours. State age, salary required, and full particulars to Ashfield, High Street.

SEAFORD.—Assistant wanted; qualified; outdoors; over military age. Also lady Assistant; outdoors. Apply, stating experience, salary required, to L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

SHREWSBURY.—Assistant; outdoors; lady with about one year's experience in Chemist's shop will suit; close Monday, Tuesday, Wednesday 7, Thursday 1 p.m., Friday 8 p.m., Saturday 9 p.m.; no extra duty; please state in first letter where experience has been obtained and salary required, also age. Apply A. Williams, M.P.S., Castle Street, Shrewsbury.

SKIPTON DISTRICT.—Wanted, well-trained Chemists over military age or otherwise ineligible. Please state salary required, references, and when disengaged, to England, The Hall, Starbeck, Harrogate.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTHSEA.—Unqualified Assistant required; good experience Dispensing, Counter, Photographic; ineligible. State salary required (indoors), references, etc., first letter, to Cruse & Co., Ltd., The Strand, Southsea.

SURREY.—Active and competent Assistant for N.H.I. and Counter; short hours; no Sunday duty; outdoors. Please state salary required, 65/16, Office of this Paper.

TYNESIDE.—Wanted, young lady with Counter and General experience; able to take charge of shop in working-class district; good wages for suitable person. Send full particulars to Edwards, Chemist, Tyne Dock.

WEST RIDING (YORKS).—Qualified Manager required for business situate in a suburb of Leeds; good house attached; good agreement with liberal interest in the profits offered. "Leeds" (65/215), Office of this Paper.

WESTON-SUPER-MARE.—Qualified Manager for branch Dispensing business immediately; unfurnished rooms if required; permanency. Full particulars and salary required, Lewis Wing, Ltd., Chemists, Weston-super-Mare.

WISBECH.—Wanted, a reliable Assistant (outdoor) for good-class country business; small amount of N.H.I.; short hours; young lady and porter kept. F. Oldham, Chemist, Wisbech.

WORCESTER.—Dispenser with good experience required; also an energetic Assistant for Counter, etc. State age, height, references, salary required, etc., Anderson & Virgo, Chemists, Worcester.

YORKS (WEST RIDING).—Good opening presents itself for a smart, capable, unqualified male Assistant; one who has been rejected or is above military age preferred. "H. B." (65/214), Office of this Paper.

A COMPETENT Assistant, lady or gentleman, if latter single under 30, unqualified, ineligible, reliable Dispenser and Counter hand, for good-class village Retail 30 miles out; short hours; outdoors; good references. Usual particulars to Mr. Coombes, Chemist, Great Missenden.

AN Assistant for London, S.W., required for permanency; must be smart Salesman and good Window-dresser, with up-to-date business abilities, for good-class family trade; commencing salary £150 per annum. Apply, with fullest particulars, age, height, experience, which will be treated in confidence, to "Chemist" (66/26), Office of this Paper.

ASSISTANT (either sex), with Dispensing and Counter experience and quick; short hours; no Sunday work. State salary asked (outdoors) and all particulars, Morrison, Tring.

ASSISTANT, unqualified (outdoors), elderly, or ineligible for military service, for middle-class Pharmacy; energetic and obliging; used to brisk Counter trade; no N.H.I. Dispensing; no Sunday duty; easy hours; half-holiday. Please state age, salary, references, Moseley, Chemist, Redditch.

ASSISTANT, male or female, wanted at once; reliable and conscientious worker; thoroughly conversant with Dispensing, Photography, and Counter work; good salary and permanency offered. Enclose photograph to "Busy" (68/100), Office of this Paper.

ASSISTANT; Counter, Dispensing, and Stock; easy berth; suit Improver or Student; moderate hours. Particulars "B," 7a Wyndham Place, W. 1.

CHEMIST, qualified (ineligible) wanted for Dispensing duties; hours 8 to 6; permanency; wages £3 10s. weekly. Apply Manager, Junior Army and Navy Stores, Ltd., Union Street, Aldershot.

DRUGS.—Stockkeeper, ineligible or over age, required; must be thoroughly experienced. Apply Staff Manager, Harrods, Ltd., 44 Hans Crescent, S.W.

LADY Dispenser wanted at once for practice in Middlesbrough; morning and evening work; no Sunday duty. State experience, age, salary to Drs. Williams and Williams 109 Grange Road West, Middlesbrough.

LADY Dispenser wanted; light duties; good salary; must be experienced. Dr. Iud, Sittingbourne, Kent.

LOCUM (seaside) at once; please state age, salary (outdoors), and give reference. Apply 65/7, Office of this Paper.

LOCUM required September 1 to 7 inclusive, or September 15 to 21, for small Dispensing business; lady Assistant kept; live in or out. State terms, etc., J. R. Thornton, 4 Stratford Road, Kensington, W. 8.

LOCUM wanted; Assistant kept. State when at liberty, age, terms, and reference, A. H. Harries, The Heathfield Road Pharmacy, Handsworth, Birmingham.

MANAGER.

Ineligible or over military age; must be a smart, up-to-date man, capable of handling staff, superintend Window-dressing, and thoroughly competent to deal with a rushing business; knowledge of Optics a recommendation; good salary and commission to the right man. "London" (68/1), Office of this Paper.

MANAGER; qualified, experienced, and energetic; £3 10s. per week and house; share profits; over military age or ineligible; permanency. "London" (65/213), Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

PHARMACIST wanted to reside on premises, to open and close and to take occasional duty; good house and garden in pleasant western suburb; would suit lady, an elderly or disabled gentleman. Apply 66/4, Office of this Paper.

QUALIFIED Chemist wanted to manage Herb, Drug, and Medical Requisite Stores; North London; alternate Sundays, 10 to 12 a.m.—6 to 8 p.m. State salary, etc., to "D." (51/11), Office of this Paper.

QUALIFIED Assistant, with view to succession, in an old-established seaside business; easy hours and duties. "Shibboleth" (66/5), Office of this Paper.

QUALIFIED Manager wanted immediately for good-class Dispensing, Veterinary, and Agricultural business (Wholesale and Retail); ineligible. State age, reference, and salary in first letter, Taylor Gibson & Co., 17 Bigg Market, Newcastle-on-Tyne.

RELIABLE Assistant, ineligible for Army, required immediately; pleasant business in country town; outdoors; good salary; need not be qualified, but must be competent to take charge occasionally. Enclose photo and give age, height, salary, references, and experience, Young, Chemist, Nantwich.

REQUIRED, lady Dispenser; Minor qualifications; hours of work approximately 8.45 to 6 o'clock, 1 o'clock Saturdays, Sunday duty. Write, stating full particulars of past experience and salary required, to L. J., Army and Navy Stores, 105 Victoria Street, S.W. 1.

SURGICAL Instrument Business Assistant for front shop. Address, stating age, wages expected, and duties accustomed to, Box "Surgical," Lee & Nightingale, Liverpool.

WANTED, Locum for about a fortnight or three weeks for small business in the North; outdoors. State terms and particulars to 65/28, Office of this Paper.

WANTED, Locum for about three weeks or fourteen days to take entire charge as soon as possible. Please call or write, state terms (outdoors), to 61 Stroud Green Road, London, N.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

LONDON.—Competent Dry Counter hand with good experience; ineligible for or retired from military service; wages 35s. Apply, stating full particulars, to 67/10, Office of this Paper.

DRY Counter hand (Senior), also Wet Counter hands, wanted at once. Apply by letter, stating age, previous engagements, and salary required, to "Export" (118/210), Office of this Paper.

LABORATORY.—Wanted at once by London house, Assistants to manufacture Galenicals. Apply by letter, stating previous engagements, age, and wages required, to "Henbane" (68/21), Office of this Paper.

PACKER; light work; easy hours; must be steady and reliable. Anglo-French Drug Co., Ltd., Gamage Building, Holborn.

REQUIRED by a Wholesale firm, a man accustomed to checking orders and to make himself generally useful in the warehouse; permanency; state experience and wages. Apply 68/30, Office of this Paper.

TRAVELLER wanted for country; must be really smart; good salary and commission to right man; calling on Chemists, Hairdressers, etc. Apply 118/14, Office of this Paper.

VERY old-established Sundries and Packed Goods house are open to appoint Representatives to carry their goods as side line on commission for the following districts: Somerset, Devon, Cornwall, Scotland, and Ireland. Apply, giving full particulars, to 114/46, Office of this Paper.

WANTED, first-class Traveller of good address for front rank house specialising in Chemists' Sundries, Manicure and Toilet Requisites, etc., to call on leading Chemists in London; must be experienced, of good appearance, and proved Salesman. Apply, stating age, salary required, and when disengaged, to "C." (114/25), Office of this Paper.

WANTED, Chemist's Assistant in Laboratory of Manufacturing Chemists; capable of making Tinctures, Infusions, Ointments, etc.; not eligible for Army. Apply 116/54, Office of this Paper.

WANTED by London Export house, respectable girls, about sixteen, for filling and finishing department. Apply by letter, stating age, wages required, and previous experience if any, to "Forewoman" (118/212), Office of this Paper.

WANTED, Assistant to execute orders and supervise the receipt of goods; must be ineligible; hours 8 to 6, Saturdays 8 to 1. State age, present and past situations, references and salary required, also when at liberty, Reade Brothers & Co., Ltd., Wolverhampton.

WET and Dry Counter hand wanted; also Packer. Apply Heppell's, Wholesale Druggists, 38 Chandos Street, Charing Cross, W.C.

YOUNG man (ineligible), age 18-40, wanted for the Works Laboratory of Manufacturing Chemists; must combine Pharmaceutical knowledge with some commercial experience and training; permanent and progressive berth for energetic and keen worker. Apply 66/9, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for **50** words or less; **6d.** for every **10** words or less beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

JAPAN.—Wanted immediately, an Assistant (qualified preferred) in a first-class Chemist's business at Kobe; easy hours; four years' contract; passage paid out and home; must be ineligible for the Army. Send for full particulars, with photo, to J. W. Franklin, 28 Alleyn Road, London, S.E. 21.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]

RETAIL.

A MEDICAL man's son requires situation with a good Chemist at Scarborough; Dispenser; used to Retail. Apply 64/8, Office of this Paper.

AS Assistant to Doctor or Institution in London district; position wanted by young lady. "B." (66/10), Office of this Paper.

AS Senior or Dispenser in good-class Business; highest references; age 42. Apply "Statim" (67/29), Office of this Paper.

ASSISTANT, or view to purchase; no Locums. "Competent," 146 Philip Street, Newcastle-on-Tyne.

CHEMIST; 28; rejected; married; 11 years' experience, 6 years last reference; salary 3 guineas; Bookkeeping, Retail, Photography, Dispenser, and Prescriber; South or South-West Coast. Sims, 70 Bridge Road, Thornton Heath, Surrey.

DISPENSER, male (Hall qualification) offers services occasional evenings, etc., to Dispensary or Institution within easy reach of S.E. "Extracta" (65/13), Office of this Paper.

DISPENSER Bookkeeper, lady, 15 months' experience with Chemist, requires post; Suffolk preferred. Hitchcock, "Snitterfield," Stowmarket.

DISPENSER, qualified, wants two or three hours four or five afternoons weekly; Chemist or Doctor; West. Apply 67/35, Office of this Paper.

DISPENSER, lady, unqualified, requires post; Doctor or Chemist; good experience; thoroughly reliable. Apply 66/32, Office of this Paper.

DOCTOR'S Dispenser and Bookkeeper; permanency desired; 12 years in one post; strictly temperate; ineligible. Apply 66/33, Office of this Paper.

DOCTOR'S Dispenser disengaged; many years' experience; highest references; past military age; outdoors. Apply 68/26, Office of this Paper.

ELDERLY, qualified Assistant; Dispenser; permanency; single; active; disengaged; light duties; moderate hours. Apply 66/8, Office of this Paper.

HOSPITAL Dispenser; Locum; qualified. Irving, 66 Rowfant Road, Balham, S.W. 17.

LADY Dispenser (Hall) desires post; N. London preferred; five years' experience with Doctor. "M.," 34 St. George's Road, Golders Green, N.W. 4.

LADY, partly qualified, desires post with Chemist (part time) or Doctor. Quincey, 52 Cartwright Gardens, W.C. 1.

LADY Dispenser (Hall certificate) desires post; Hospital or Institution preferred; London or near; quick and accurate; excellent references; disengaged now. Apply 66/20, Office of this Paper.

LADY Dispenser (Hall) desires post; Doctor or Institution; near London preferred; disengaged end of September. Miss Wood, 23 Clonmel Road, S.W. 6.

LADY Dispenser, qualified, experienced, desires post, locum or permanent, with Doctor or Institution. J. Ross, 111 Truro Road, Wood Green, N.

LIVERPOOL or District.—Competent Assistant or Manager; ineligible. Particulars, 1 Lowwood Grove, Birkenhead.

LOCUM or Temporary Manager; over age; qualified; abstainer; excellent references; disengaged shortly. Apply 65/25, Office of this Paper.

LOCUM; qualified; 30 years' experience in first-class London and provincial Pharmacies; disengaged September 20; excellent references. Parker, 12 Eleanor Street, Huddersfield.

LOCUM or Regular; September 8 disengaged; unqualified; 49. "Rhei," 5 The Broadway, St. Margarets.

MANAGER; qualified; thoroughly reliable and competent; only those requiring genuine man for responsible position need apply; London or near; age 39; B3. Apply 66/11, Office of this Paper.

MANAGER or Assistant, unqualified, 40, wants responsible position; salary £3 10s.; Manchester preferred. "Ipecac" (67/2), Office of this Paper.

MANAGER; qualified; over military age; Midlands preferred; salary offered and particulars. "Midland" (67/12), Office of this Paper.

NEWCASTLE DISTRICT.—Single wishes change; state salary. "M." (65/40), Office of this Paper.

PHARMACIST, 29, Army discharge certificate, seeks permanent position, Senior or Manager, October; experienced Riviera, London West-End, Suburban, South Coast, etc. Trump, 55 Woolwich Road, Belvedere, Kent.

PHARMACIST Manager, 34, exceptional experience, references, and abilities, desires position with prospect of financial interest. "Calamus" (63/15), Office of this Paper.

PHARMACIST (45) seeks berth Liverpool vicinity; good experience; moderate salary; at liberty. Apply 66/16, Office of this Paper.

QUALIFIED, 50, excellent experience, references, Dispenser, Prescriber, disengaged 5 p.m. daily. Apply 65/27, Office of this Paper.

QUALIFIED seeks Managership, preferably with view to interest or succession; meanwhile part-time or locum; age 46; please state hours and salary; free September 14. Apply 64/14, Office of this Paper.

QUALIFIED Manager; middle-aged, active; varied experience; Bristol or near preferred. "R." (63/6), Office of this Paper.

QUALIFIED Dispenser (Hall) disengaged; salary required 35s. weekly; outdoors. Miss Green, 78 Morden Road, Newport, Mon.

QUALIFIED Chemist's Assistant; 40; single; pensioned from Army; situation town or country; can Dispense; disengaged September 1. Write Box 945, Reynell's, 44 Chancery Lane, W.C. 2.

QUALIFIED Chemist, over military age, desires position as Manager; experienced in all departments; Surgical Instruments and Appliances Diploma,, Analytical and Metallurgical Chemistry. Apply 66/18, Office of this Paper.

QUALIFIED, 49, first-class experience and references, desires permanent post as Manager in good-class business; succession or interest entertained; free October 1. Apply 67/34, Office of this Paper.

QUALIFIED; age 44; disengaged; locum or permanency. Pharmacist, 5 Claverton Street, S.W.

THOROUGHLY experienced qualified lady Dispenser; disengaged October; Doctor or Hospital; no Chemists. Apply 66/28, Office of this Paper.

TWO lady Dispensers (Apothecaries' Hall qualification) desire posts together, London or on Coast, either in Hospital or with Doctor; Military Hospital experience. Miss Mills, 59 Amhurst Park, Stamford Hill, London, N.

TWO ladies (21-22) desire engagement, together if possible, or in close proximity; Surrey district preferred; both have knowledge of Counter work and Photography. Address 116/42, Office of this Paper.

UNQUALIFIED, over military age, disengaged shortly; Dispensing Counter, Extractor; town and country experience. "Lysol" (65/17), Office of this Paper.

UNQUALIFIED; middle-aged; locum or permanency; experienced; accustomed to management; thoroughly reliable; satisfactory references; free early in October. Apply 67/9, Office of this Paper.

WHOLE or part-time Counter Dispensing, Photographic, Window-dresser; London. Apply 68/39, Office of this Paper.

£3 10s. outdoors and return fare, as Locum, Temporary Manager, Branch Manager, or permanency; elderly, reliable, good Dispenser. "Locum," 3 Milton Market, Portsmouth.

WHOLESALE.

DISPATCH, Manufacturing, and Drug Store management 15 years Wholesale and Retail experience; ineligible; permanency desired. Apply 68/28, Office of this Paper.

LADY, capable, well educated, good knowledge of Pharmacy, seeks post as Commercial Representative. Please state full particulars to 67/23, Office of this Paper.

LIVE man as Traveller; South Wales or West Country. Apply 67/21, Office of this Paper.

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PART-TIME Woman Chemist (Major); manufacture Official Preparations, Perfumes, Creams, Powders, and all Toilet requisites; also Experimental work; long experience; good references. Apply 64/400, Office of this Paper.

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TRAVELLER, Chemists, Midlands, Eastern Counties, South Coast, splendid connection, requires additional line; commission and part expenses. "J." (67/18), Office of this Paper.

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YOUTH seeks opening Analytical Laboratory; technical education; 14 months' Assistant Analyst; main object extend knowledge; highest references. "K.," 25 Devonshire Road, Hackney.

MISCELLANEOUS.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone: 81 Lee Green.

Shares for Sale (free of commission, subject).—100 W. J. Bush £5 5% Prefs., 75*s.*; 16 Borax Deferred, 39*s.*; 150 Bleachers Ord., 19*s.* 10½*d.*; 40 Apollinaris Prefs., 35*s.* 9*d.*; 200 Lewis & Burrows Ord., 6*s.* 9*d.*; 300 6% Prefs., 14*s.* 6*d.*; 300 Molasaine 7% Prefs., 15*s.* 6*d.* C.D.; 100 Tower Tea Ord., 3*s.* 7½*d.*; 200 Watford Prefs., 10*s.*; 140 Wickens Pease, 20*s.* 7½*d.*

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MISCELLANEOUS.

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WANTED.

WANTED, P.J. Formula; state price. Smith, Chemist, Crail.

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A TON of spent Capsicum wanted. Apply 67/15, Office of this Paper.

WANTED, Quarter-plate Carbine Camera, Model 5. Archer, Chemist, Cambridge.

WANTED, Books (second-hand terms) for Minor course. Evans, Myrtle Pharmacy, Goodwick.

WANTED, acetate of soda crystals. Quantity and cash price. Chambers, Arnold, Nottingham.

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WANTED, Martindale's extra Pharm. or Squire's Companion; recent. Also Saccharine Powder, 550. Particulars to Appleyard, Chemist, Great Horton, Bradford.

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